

**GEIGY CHEMICAL CORPORATION SITE**  
**Aberdeen, North Carolina**  
**COMMITTEE CORRESPONDENCE**

December 30, 2014

Mr. Jon Bornholm  
Remedial Project Manager  
USEPA Region IV  
61 Forsyth Street, SW  
Mail Code: 9T25  
Atlanta, GA 30303-8960

**RE: October 2013 Sampling Event**  
**Downgradient Area Monitoring Report**  
**Geigy Chemical Corporation CERCLA Site**  
**Aberdeen, North Carolina**

Dear Mr. Bornholm:

On behalf of Olin Corporation and Syngenta Crop Protection (the Companies), the purpose of this letter is to transmit analytical results for the October 2013 monitoring event associated with the Geigy Site downgradient area monitored natural attenuation remedy. The monitoring event includes the collection of groundwater and surface water samples.

Samples for the annual monitoring event were collected October 14 through 17, 2013, and were submitted to TestAmerica Laboratories, Inc. in Savannah, Georgia for analysis. Laboratory analytical results are summarized in Tables 1, 2, 3, and 4 (Attachment 1). Sample locations are shown in Figures 1, 2, 3 and 4 (Attachment 2). Copies of the analytical reports are included in Attachment 3.

To facilitate your review, findings of the October 2013 downgradient area monitoring event are summarized below.

**Upper Black Creek Aquifer Groundwater Samples**

BHC isomers were detected at concentrations exceeding the performance standards in four of the seven Upper Black Creek monitoring wells (MW-11D, MW-18D, MW-20D, MW-22D, MW-23D, MW-26D, and MW-30). Monitoring well MW-11D and MW-20D could not be sampled due to insufficient water in the wells. BHC isomer concentrations generally have decreasing trends. Alpha-BHC exceeded the performance standard in MW-18D, MW-26D, and MW-30D. Beta-BHC exceeded the performance standard in MW-18D, MW-22D, and MW-30D. Delta-BHC exceeded the performance standard in MW-18D and MW-22D. Gamma-BHC exceeded the performance standard in MW-18D. Dieldrin and Endrin Ketone exceeded the performance standard in MW-18D and MW-30D. The BHC isomer concentrations in the five monitoring wells sampled remain within the range of historical results.

Upper Black Creek Aquifer October 2013 groundwater data are summarized in Table 1 and in Figure 2. Historical sample results are summarized in Table 4.

## **Lower Black Creek Aquifer Groundwater Samples**

No pesticides were detected in groundwater samples collected from monitoring wells MW-32L, MW-38L, or MW-39L, located adjacent to Aberdeen Creek and Ray's Mill Creek. No pesticides were detected in the groundwater sample collected from monitoring well MW-36L, which serves as a sentinel monitoring point for Town Well No. 2.

BHC isomer concentrations generally have decreasing trends. The BHC isomer concentrations detected in the monitoring wells remain within the range of historical concentrations.

Lower Black Creek Aquifer October 2013 groundwater data are summarized in Table 2 and in Figure 3. Historical sample results are summarized in Table 4.

## **Surface Water Samples**

Estimated concentrations of BHC isomers below the laboratory reporting limit were detected in the McFarland's Branch surface water samples SW-01, SW-02 and SW-03. The concentrations of BHC isomers in McFarland's Branch continue to be consistent with historical levels.

Estimated concentrations of alpha-BHC, beta-BHC and delta-BHC isomers below the laboratory reporting limit were detected in the Aberdeen Creek surface water samples SW-04, SW-05, SW-06, SW-07, SW-08 and SW-11-2.

No BHC isomers were detected in the surface water sample collected from Ray's Mill Creek (SW-09).

Surface water October 2013 data are summarized in Table 3 and in Figure 4.

Should you have questions concerning the monitoring results, please contact Chris Hay at 336.763-6025.

Sincerely,  
**ENVIROTRAC LTD.**



Annamarie Blauser  
Senior Scientist



Christopher W. Hay  
Principal

Enclosure

cc: Doug Rumford, NCDENR DWR, w/enc.  
James Cashwell, Olin Corporation, w/enc.  
George Crouse, Syngenta, w/enc.

**ATTACHMENT 1**

**ANALYTICAL DATA SUMMARY TABLES  
OCTOBER 2013 MONITORING EVENT**

TABLE 1: UPPER BLACK CREEK AQUIFER GROUNDWATER MONITORING SUMMARY

PARAMETER								PERFORMANCE STANDARD
SAMPLE LOCATION	MW-11D	MW-18D	MW-20D	MW-22D	MW-23D	MW-26D	MW-30D	
DATE COLLECTED	10/14/2013	10/16/2013	10/16/2013	10/16/2013	10/16/2013	10/17/2013	10/16/2013	
Aldrin	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	0.05
alpha-BHC	NS	<b>0.19</b>	NS	0.03 J	0.047 J	0.013 J	<b>0.12</b>	0.05
beta-BHC	NS	<b>1.7 E*</b>	NS	<b>0.17 p</b>	0.037 Jp	0.048 U	<b>2.4 Ep</b>	0.05
delta-BHC	NS	<b>0.55</b>	NS	<b>0.097</b>	0.012 Jp	0.0088 Jp	<b>1.1 Ep</b>	0.05
gamma-BHC (Lindane)	NS	<b>0.21</b>	NS	0.024 J	0.033 J	0.022 J	0.068 p	0.2
alpha-Chlordane	NS	0.048 U	NS	<b>0.0074 Jp</b>	0.051 U	<b>0.021 J</b>	0.049 U	NE
gamma-Chlordane	NS	0.048 U	NS	<b>0.01 J</b>	0.051 U	<b>0.0081 Jp</b>	<b>0.065 p</b>	NE
Dieldrin	NS	<b>0.15</b>	NS	0.018 J	0.051 U	0.048 U	<b>0.21 p</b>	0.1
4,4'-DDD	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
4,4'-DDE	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
4,4'-DDT	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Endosulfan I	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Endosulfan II	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Endosulfan sulfate	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Endrin	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Endrin aldehyde	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Endrin ketone	NS	<b>0.13</b>	NS	0.018 J	0.051 U	0.048 U	<b>0.24</b>	0.1
Heptachlor	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Heptachlor epoxide	NS	0.048 U	NS	0.048 U	0.051 U	<b>0.02 J</b>	0.049 U	NE
Methoxychlor	NS	0.048 U	NS	0.048 U	0.051 U	0.048 U	0.049 U	NE
Toxaphene	NS	<b>1.5 Jp</b>	NS	4.8 U	5.1 U	4.8 U	<b>3.7 Jp</b>	1
Trichloroethene	NS	23	NS	NA	NA	NA	0.21 J	**

**NOTES:**

Results are presented in micrograms per liter

J = Estimated value less than the reporting limit but greater than the method detection limit.

U = Indicates the analyte was analyzed, but not detected.

D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

E = Results exceeded calibration range

p = The %RPD between the primary and confirmation column/detector is &gt;40%. The lower value has been reported.

NE = No standard established

\* = LCS and LCSD exceeds the control limits

\*\* = Trichloroethene is not a COC for the Geigy site

NA = Not analyzed for this compound

**Bold** = Concentration exceeds performance standard or method detection limits if no standard is established

NS = Not sampled

MW-11D and MW-20D were not sampled due to insufficient amount of water.

TABLE 2: LOWER BLACK CREEK AQUIFER GROUNDWATER MONITORING SUMMARY

PARAMETER	ANALYTICAL DATA												PERFORMANCE STANDARD	
	MW-22L	MW-25L	MW-27L	MW-31L	MW-32L	MW-36L	MW-37L	MW-38L	MW-39L	MW-40L	PZ-2	PZ-3	PZ-5	
SAMPLE LOCATION	10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/17/2013	10/16/2013	10/16/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013
Aldrin	0.05 U	0.051 U	<b>0.018 Jp</b>	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	0.05
alpha-BHC	<b>0.2</b>	<b>0.93 E</b>	<b>1.3 E</b>	<b>0.57</b>	0.051 U	0.049 U	<b>1 E</b>	0.051 U	0.048 U	0.049 U	<b>0.31</b>	<b>0.24</b>	<b>2 E</b>	0.05
beta-BHC	<b>0.82 E*</b>	<b>0.64</b>	<b>2.4 E*</b>	<b>0.75</b>	0.051 U	0.049 U	<b>0.77</b>	0.051 U	0.048 U	0.042 Jp	<b>0.19</b>	<b>0.093</b>	<b>0.48</b>	0.05
delta-BHC	<b>0.53</b>	<b>1.4 E</b>	<b>2.4 Ep</b>	<b>1 E</b>	0.051 U	0.049 U	<b>1.6 E</b>	0.051 U	0.048 U	0.049 U	<b>0.22</b>	<b>0.14</b>	<b>0.55</b>	0.05
gamma-BHC (Lindane)	0.18	0.13	<b>0.21</b>	0.095	0.051 U	0.049 U	<b>0.23</b>	0.051 U	0.048 U	0.049 U	<b>0.2</b>	0.17	<b>1.7 E</b>	0.2
alpha-Chlordane	0.05 U	0.051 U	0.047 U	<b>0.015 J</b>	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
gamma-Chlordane	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Dieldrin	0.094	0.028 J	<b>0.17</b>	0.032 J	0.051 U	0.049 U	0.021 J	0.051 U	0.048 U	0.049 U	0.015 J	0.051 U	0.05 U	0.1
4,4'-DDD	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
4,4'-DDE	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
4,4'-DDT	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Endosulfan I	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Endosulfan II	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Endosulfan sulfate	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Endrin	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Endrin aldehyde	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Endrin ketone	0.064	0.033 J	<b>0.23</b>	0.056	0.051 U	0.049 U	0.049	0.051 U	0.048 U	0.049 U	0.013 J	0.051 U	0.021 J	0.1
Heptachlor	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Heptachlor epoxide	0.05 U	0.051 U	0.047 U	<b>0.021 J</b>	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Methoxychlor	0.05 U	0.051 U	0.047 U	0.053 U	0.051 U	0.049 U	0.048 U	0.051 U	0.048 U	0.049 U	0.049 U	0.051 U	0.05 U	NE
Toxaphene	<b>1.1 Jp</b>	5.1 U	<b>2.1 Jp</b>	5.3 U	5.1 U	4.9 U	4.8 U	5.1 U	4.8 U	4.9 U	4.9 U	5.1 U	5 U	1

**NOTES:**

Results are presented in micrograms per liter

D = Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution

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U = Indicates the analyte was analyzed, but not detected.

p = The %RPD between the primary and confirmation column/detector is &gt;40%. The lower value has been reported.

NE = Not established

\* = LCS and LCSD exceeds the control limits

**Bold** = Concentration exceeds performance standard or method detection limits if no standard is established

TABLE 3: SURFACE WATER ANALYTICAL SUMMARY

PARAMETER	ANALYTICAL DATA									
	McFARLANDS BRANCH			ABERDEEN CREEK						RAY'S MILL CREEK
	SW-01	SW-02	SW-03	SW-04	SW-05	SW-06	SW-07	SW-08	SW-11-2	
DATE COLLECTED	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013	10/14/2013
Aldrin	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
alpha-BHC	0.049 U	0.0073 Jp	0.015 J	0.0062 Jp	0.0097 J	0.0058 Jp	0.049 U	0.011 J	0.01 J	0.05 U
beta-BHC	0.017 Jp	0.023 J	0.041 J	0.019 Jp	0.014 J	0.013 J	0.015 J	0.017 J	0.012 Jp	0.05 U
delta-BHC	0.0083 Jp	0.021 J	0.036 J	0.012 J	0.013 J	0.012 J	0.0091 J	0.0083 Jp	0.013 J	0.05 U
gamma-BHC (Lindane)	0.0075 J	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
alpha-Chlordane	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
gamma-Chlordane	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.0064 Jp	0.05 U
Dieldrin	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
4,4'-DDD	0.017 Jp	0.049 U	0.049 U	0.051 U	0.0077 J	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
4,4'-DDE	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
4,4'-DDT	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Endosulfan I	0.0081 Jp	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Endosulfan II	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Endosulfan sulfate	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Endrin	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Endrin aldehyde	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Endrin ketone	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Heptachlor	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Heptachlor epoxide	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Methoxychlor	0.049 U	0.049 U	0.049 U	0.051 U	0.049 U	0.048 U	0.049 U	0.049 U	0.05 U	0.05 U
Toxaphene	4.9 U	4.9 U	4.9 U	5.1 U	4.9 U	4.8 U	4.9 U	4.9 U	5 U	5 U
Total Suspended Solids <sup>1</sup>	120	5 U	5 U	5 U	10	5 U	5 U	5 U	5 U	5 U

**NOTES:**

Results are presented in micrograms per liter unless otherwise noted

J = Estimated value less than the reporting limit but greater than the method detection limit

U = Indicates the analyte was analyzed, but not detected.

p = The %RPD between the primary and confirmation column/detector is &gt;40%. The lower value has been reported.

\* = LCS or LCSD exceeds the control limits.

NE = Not established

<sup>1</sup> = Total suspended solids are measured as milligrams per liter

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
<b>MW-4S</b>																							
4/21/1998	2.5 U	2.5 U,O	16	2.5 U	2.5 U	2.5 U	2.5 U	2.0 J	5.0 U	5.0 U	5.0 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U	2.5 U	25 U	50 U	NA	
1998 3rd Quarter not sampled																							
10/29/1998	0.55 U	0.55 O,R	4.2	2.8	0.55 U	0.55 U	0.55 U	0.27 J	1.1 U	1.1 U	1.1 U	0.55 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.55 U	0.55 U	5.5 U	11 U	NA	
1999 1st Quarter not Sampled																							
1999 2nd Quarter not Sampled																							
1999 3rd Quarter not Sampled																							
10/14/1999	0.05 U	0.05 U	0.36	0.23	0.05 U	0.05 U	0.05 U	0.027 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.031 J	0.05 U	0.05 U	0.5 U	2 U	NA	
2000 1st Quarter not Sampled																							
2000 2nd Quarter not Sampled																							
2000 3rd Quarter not Sampled																							
10/13/2000	0.25 U,Q	0.25 U	1.5	0.66	0.25 U	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	1 U	NA	
2001 Semi-Annual not Sampled																							
10/10/2001	0.05 U	0.05 U	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
2002 Semi & Annual Sampling Event not Sampled																							
2003 Annual Sampling Event not Sampled																							
2004 Annual Sampling Event not Sampled																							
2005 Annual Sampling Event not Sampled																							
2006 Annual Sampling Event not Sampled																							
2007 Annual Sampling Event not Sampled																							
10/24/2008	0.19 U	0.19 U	3.9 D*	0.079 J,D,P	0.044 J,D	0.19 U	0.19 U	0.57 D	0.39 U	0.39 U	0.39 U	0.19 U	0.39 U	0.39 U	0.39 U	0.39 U	0.46 D	0.19 U	0.073 J,D,P	1.9 U	19 U	NA	
2009 Annual Sampling Event not Sampled																							
10/12/2010	0.047 U	0.047 U	0.9	1.3	0.047 U	0.047 U	0.047 U	0.099	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U*	0.094 U	0.094 U	0.053 J	0.047 U	0.047 U	0.094 U	4.7 U	1.0 U
10/11/2011	0.050 U	0.013 J	1.1 D	0.21 D	0.018 Jp	0.050 U	0.050 U	0.13	0.099 U	0.067 Jp	0.099 U	0.050 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.086 J	0.050 U	0.050 U	0.099 U	5.0 U	1.0 U
10/23/2012	0.23 U	0.23 U	1.2 D	0.29 D	0.23 U	0.23 U	0.23 U	0.18 JD	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	23 U	1.0 U
10/16/2013	0.05 U	0.041 J	6.7 Ep	1.3 Ep	0.067 p	0.05 U	0.05 U	1.6 E	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	1.1 E	0.05 U	0.27	0.05 U	7.4 p	NA
<b>MW-5S</b>																							
4/21/1998	0.5 U	0.5 U	2.5 O	0.59	0.05 J	0.5 U	0.5 U	0.44 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.27 J	0.5 U	0.07 J	5 U	15	NA	
1998 3rd Quarter not sampled																							
10/29/1998	0.59 U	0.31 J,O,R	8.6	2	0.25 J	0.08 J	0.59 U	0.79 J	1.2 U	1.2 U	1.2 U	0.59 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59 U	0.18 J	5.9 U	12	NA	
1999 1st Quarter not Sampled																							
1999 2nd Quarter not Sampled																							
1999 3rd Quarter not Sampled																							
10/14/1999	0.25 U,Q	0.25 U	1.4	0.7	0.25 U	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	0.25 U	0.25 U	2.5 U	10 U	NA	
2000 1st Quarter not Sampled																							
2000 2nd Quarter not Sampled																							
2000 3rd Quarter not Sampled																							
10/13/2000	0.25 U,Q	0.042 J	3.2	1.4	0.25 U	0.25 U	0.25 U	0.35 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.29 J	0.25 U	0.25 U	2.5 U	10 U	NA	
2001 Semi-Annual not Sampled																							
10/10/2001	0.25 U	0.25 U	1.3	0.17 J	0.25 U	0.25 U	0.25 U	0.1 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.13 J	0.25 U	0.25 U	2.5 U	10 U	NA	
2002 Semi & Annual Sampling Event not Sampled																							
2003 Annual Sampling Event not Sampled																							
2004 Annual Sampling Event not Sampled																							
2005 Annual Sampling Event not Sampled																							
2006 Annual Sampling Event not Sampled</																							

**TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS**

SAMPLE ID	Pesticide Concentration Data (U or J)																					
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethylene
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**
10/15/2013	0.048 U	0.046 J	2.2 Ep	0.17	0.041 Jp	0.048 U	0.048 U	0.95 Ep	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.33 p	0.048 U	0.048 U	0.048 U	18 p	NA	
<b>MW-6S</b>																						
4/21/1998	0.5 U	2.9	6.6	6	2.4	0.5 U	0.5 U	0.58 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.62 J	0.5 U	0.5 U	5 U	20	NA
1998 3rd Quarter not sampled																						
10/29/1998	0.56 U	1.8 O,R	7.1	4.6	1.1	0.56 U	0.56 U	0.25 J	1.1 U	1.1 U	1.1 U	0.56 U	1.1 U	1.1 U	1.1 U	1.1 U	0.12 J	5.6 U	11	NA		
1999 1st Quarter not Sampled																						
1999 2nd Quarter not Sampled																						
1999 3rd Quarter not Sampled																						
10/14/1999	1.0 U,Q	3.9	6.9	18	2	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	10 U	40 U	NA
2000 1st Quarter not Sampled																						
2000 2nd Quarter not Sampled																						
2000 3rd Quarter not Sampled																						
10/13/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
2001 Semi-Annual not Sampled																						
10/11/2001	1.2 U	3.5	10	15	0.91 J	1.2 U	1.2 U	2.5 U	2.5 U	2.5 U	2.5 U	1.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.2 U	1.2 U	12 U	50 U	NA
2002 Semi & Annual Sampling Event not Sampled																						
2003 Annual Sampling Event not Sampled																						
2004 Annual Sampling Event not Sampled																						
2005 Annual Sampling Event not Sampled																						
2006 Annual Sampling Event not Sampled																						
2007 Annual Sampling Event not Sampled																						
10/23/2008	0.49 U	0.23 J,D	4.4 D	1.6 D	0.091 J,D	0.49 U	0.49 U	0.10 J,D	0.97 U	0.97 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.49 U	0.49 U	4.9 U	49 U	NA
2009 Annual Sampling Event not Sampled																						
10/12/2010	0.047 U	0.14 p	5.9 Ep	1.8 Ep	0.047 U	0.047 U	0.047 U	0.35 p	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U*	0.094 U	0.094 U	0.40 p	0.047 U	0.047 U	0.094 U	4.7 U	1.0 U
10/11/2011	0.049 U	0.098	5.9 D	1.1 D	0.054 p	0.049 U	0.049 U	0.33	0.099 U	0.099 U	0.099 U	0.049 U	0.099 U	0.099 U	0.099 U	0.099 U	0.32	0.049 U	0.049 U	0.099 U	6.9	1.0 U
10/23/2012	0.55 U	0.55 U	5.1 D	1.8 D	0.065 JD	0.55 U	0.55 U	0.57 D	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.28 JD	0.55 U	0.55 U	0.55 U	55 U	1.0 U
10/15/2013	0.048 U	0.1	3.1 Ep	1.4 Ep	0.048 U	0.048 U	0.048 U	0.36 p	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.34	0.048 U	0.048 U	0.048 U	5.2 p	NA
<b>MW-10S</b>																						
4/21/1998	0.5 U	0.39 J	7	1.6	1.34 J	0.5 U	0.5 U	0.9 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1.8	0.5 U	0.5 U	5 U	8.4 J	5.0 U
1998 3rd Quarter not sampled																						
10/29/1998	0.56 U	0.085 J,O,R	4.5	0.41 J	0.11 J	0.56 U	0.56 U	0.27 J	1.1 U	1.1 U	1.1 U	0.56 U	1.1 U	1.1 U	1.1 U	1.1 U	0.56 U	0.56 U	0.56 U	5.6 U	11 U	1.0 U
1999 1st Quarter not Sampled																						
1999 2nd Quarter not Sampled																						
1999 3rd Quarter not Sampled																						
10/14/1999	0.25 U,Q	0.045 J	2.3	0.21 J	0.064 J	0.25 U	0.25 U	0.17 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.40 J	0.25 U	0.25 U	2.5 U	10 U	10 U
2000 1st Quarter not Sampled																						
2000 2nd Quarter not Sampled																						
2000 3rd Quarter not Sampled																						
10/13/2000	0.25 U,Q	0.25 U	108	0.077 J	0.25 U	0.25 U	0.25 U	0.21 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.24 J	0.25 U	0.25 U	2.5 U	10 U	1.0 U
2001 Semi-Annual not Sampled																						
10/11/2001	0.25 U	0.17 JD	1	0.65	0.058 J	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	1.0 U
2002 Semi & Annual Sampling Event not Sampled																						
2003 Annual Sampling Event not Sampled																						
2004 Annual Sampling Event not Sampled																						
2005 Annual Sampling Event not Sampled																						
2006 Annual Sampling Event not Sampled																						
2007 Annual Sampling Event not Sampled																						
10/21/2008	0.19 U	0.19 U	1.7 D	0.19 U	0.19 U	0.19 U	0.19 U	0.26 J,D	0.38 U	0.38 U	0.38 U	0.19 U	0.38 U	0.38 U	0.38 U	0.38 U	0.36 J,D	0.19 U	0.19 U	1.9 U	19 U	1.0 U
2009 Annual Sampling Event not Sampled																						
10/12/2010	0.49 U	0.49 U	5.8 D	0.49 U	0.49 U	0.49 U	0.49 U	0.51	0.97 U	0.97 U	0.97 U	0.49 U	0.97 U	0.97 U	0.97 U	0.97 U	0.98 D	0.49 U	0.49 U	0.97 U	49 U	NA
10/11/2011	0.051 U	0.013 J	1.6 D	0.047 J	0.0098 Jp	0.51 U	0.51 U	0.17	0.10 U	0.10 U	0.10 U	0.051 U	0.10 U	0.10 U	0.10 U	0.10 U	0.28	0.051 U	0.051 U	0.10 U	1.6 Jp	1.0 U

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																						
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**
10/23/2012	0.054 U	0.054 U	0.38	0.012 J	0.054 U	0.054 U	0.054 U	0.061	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.056	0.054 U	0.054 U	0.054 U	5.4 U	1.0 U
10/15/2013	0.048 U	0.013 J	0.88 E*	0.026 Jp	0.021 J	0.048 U	0.048 U	0.067	0.048 U	0.048 U	0.048 U	0.012 J	0.048 U	0.048 U	0.048 U	0.16	0.048 U	0.014 Jp	0.048 U	0.53 Jp	1 U	
<b>MW-16S</b>																						
4/21/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	5.0 U
1998 3rd Quarter not sampled																						
10/29/1998	0.05 U	0.05 U,R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.52 U	1 U	1.0 U
1999 1st Quarter not Sampled																						
1999 2nd Quarter not Sampled																						
1999 3rd Quarter not Sampled																						
10/14/1999	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	1.0 U
2000 1st Quarter not Sampled																						
2000 2nd Quarter not Sampled																						
2000 3rd Quarter not Sampled																						
10/13/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	5.0 U
2001 Semi-Annual not Sampled																						
10/11/2001	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.52 U	2 U	1.0 U
2002 Semi & Annual Sampling Event not Sampled																						
2003 Annual Sampling Event not Sampled																						
2004 Annual Sampling Event not Sampled																						
2005 Annual Sampling Event not Sampled																						
2006 Annual Sampling Event not Sampled																						
2007 Annual Sampling Event not Sampled																						
10/21/2008	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	4.7 U	1.0 U	
2009 Annual Sampling Event not Sampled																						
10/11/2010	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.095 U*	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.048 U	0.095 U	4.8 U	1.0 U
10/11/2011	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.050 U	0.050 U	0.10 U	5.0 U	1.0 U
10/23/2012	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	4.7 U	1.0 U
10/15/2013	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	5.2 U	1 U
<b>MW-17S</b>																						
4/21/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	5.0 U
1998 3rd Quarter not sampled																						
10/29/1998	0.05 U	0.05 U,R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	1.0 U
1999 1st Quarter not Sampled																						
1999 2nd Quarter not Sampled																						
1999 3rd Quarter not Sampled																						
10/14/1999	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	1.0 U
2000 1st Quarter not Sampled																						
2000 2nd Quarter not Sampled																						
2000 3rd Quarter not Sampled																						
10/13/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	1.0 U
2001 Semi-Annual not Sampled																						
10/11/2001	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U			

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
10/11/2011	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	4.8 U	1.0 U
10/23/2012	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	5.4 U	1.0 U
10/15/2013	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	4.8 U	1 U
<b>MW-18S</b>																							
4/21/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	5.0 U	
1998 3rd Quarter not sampled																							
10/29/1998	0.05 U	0.05 U,R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	1.0 U	
1999 1st Quarter not Sampled																							
1999 2nd Quarter not Sampled																							
1999 3rd Quarter not Sampled																							
10/14/1999	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	1 U	
2000 1st Quarter not Sampled																							
2000 2nd Quarter not Sampled																							
2000 3rd Quarter not Sampled																							
10/13/2000	0.05 U	0.018 J	0.05 U	0.05 U	0.24	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	10 U	
2001 Semi-Annual not Sampled																							
10/11/2001	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	1 U	
2002 Semi & Annual Sampling Event not Sampled																							
2003 Annual Sampling Event not Sampled																							
2004 Annual Sampling Event not Sampled																							
2005 Annual Sampling Event not Sampled																							
2006 Annual Sampling Event not Sampled																							
2007 Annual Sampling Event not Sampled																							
10/21/2008	0.047 U	0.047 U	0.032 J,p	0.047 U	0.047 U	0.047 U	0.047 U	0.21 J	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.026 J	0.047 U	0.047 U	0.47 U	4.7 U	1 U	
2009 Annual Sampling Event not Sampled																							
10/12/2010	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.10 U	0.10 U	0.10 U	0.10 U	0.05 U	0.10 U	0.10 U	0.10 U*	0.10 U	0.10 U	0.10 U	0.05 U	0.10 U	5.0 U	1.0 U	
10/11/2011	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.098 U	0.098 U	0.098 U	0.098 U	0.049 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.049 U	0.049 U	0.098 U	4.9 U	1.0 U	
10/23/2012	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	5.2 U	1.0 U
10/15/2013	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	5.2 U	1 U
<b>MW-11D</b>																							
4/21/1998	0.14	0.52	0.1	0.045 J	0.05 U	0.05 U	0.05 U	0.053 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.056 J	0.05 U	0.05 U	0.5 U	1 U	NA	
1998 3rd Quarter not sampled																							
10/27/1998	0.53 U	1.6 O,R	4.9	0.98	0.52 J	0.53 U	0.53 U	0.21 J	1.1 U	1.1 U	1.1 U	0.53 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53 U	0.53 U	5.3 U	11 U	NA	
4/13/1999	0.5 U	1.8 Q	6.9	1.3	0.33 Q	0.5 U	0.5 U	0.28 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.43 J	0.5 U	0.5 U	5 U	20 U	NA	
8/13/1999	1 U	3.3	16.0	2.6	0.39 J	1 U	1 U	0.78 J	0.24 J	2 U	2 U	1 U	2 U	2 U	2 U	2 U	1.1 J	1 U	1 U	10 U	40 U	NA	
10/14/1999	1 U	2.5	13.0	1.9	0.26 J	1 U	1 U	0.54 J	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	0.93 J	1 U	1 U	10 U	40 U	NA	
2/4/2000	1 U	2.1	14.0	2	0.31	1 U	1 U	0.65 J	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	1.2 J	1 U	1 U	10 U	40 U	NA	
4/12/2000	1 U	2.4	13.0	2.3	0.91	1 U	1 U	0.73	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	0.93 J	1 U	1 U	10 U	40 U	NA	
7/24/2000	0.5 U,Q	2	8.1	1.6	0.86	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.63 J	0.5 U</td					

**TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS**

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																						
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**
10/16/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80
<b>MW-18D</b>																						
4/21/1998	0.5 U	1.7	6.5	1.6	1.1	0.5 U	0.5 U	0.66 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1.1	0.5	0.08 J	5 U	10 U	6.2
1998 3rd Quarter not sampled																						
10/29/1998	1 U	1.6 O	8.2	1.9	1	1 U	1 U	0.5 J	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	10 U	20 U	4.2
1999 1st Quarter not Sampled																						
4/15/1999	0.5 Q	1	4.9	0.78	0.7	0.5 U	0.5 U	0.29 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.57 J	0.5 U	0.5 U	5 U	20 U	NA
8/13/1999	0.25 U	1.2	3.8	0.77	0.94	0.25 U	0.25 U	0.23 J	0.049 J	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.37 J	0.25 U	0.25 U	2.5 U	10 U	NA
10/14/1999	0.25 U	1	3	0.64	0.84	0.25 U	0.25 U	0.16 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.35 J	0.25 U	0.25 U	2.5 U	10 U	20
2/4/2000	0.25 U	1.2	3	0.68	1	0.25 U	0.25 U	0.17 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.37 J	0.25 U	0.25 U	2.5 U	10 U	NA
4/12/2000	0.25 U,Q	1	2.5	0.56	0.92	0.25 U	0.25 U	0.17 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.35 J	0.25 U	0.25 U	2.5 U	10 U	NA
7/24/2000	0.25 U,Q	0.97	2.7	0.81	0.86	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.31 J	0.25 U	0.25 U	2.5 U	10 U	NA
10/15/2000	0.25 U,Q	0.81	2.6	0.64	0.7	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.26 J	0.5 U	0.5 U	5 U	20 U	29 Q
1/12/2001	0.25 U	0.76	2.5	0.63	0.71	0.25 U	0.25 U	0.12 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.226 J	0.25 U	0.25 U	2.5 U	10 U	NA
10/10/2001	0.05 U	0.43	0.7	0.17	0.4	0.05 U	0.05 U	0.058 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.072 J	0.05 U	0.05 U	0.5 U	2 U	46 Q
10/21/2008	0.19 U	0.016 J,D	1.0 D	0.057 J,D,P	0.14 J,D	0.19 U	0.19 U	0.093 J,D	0.39 U	0.39 U	0.39 U	0.19 U	0.39 U	0.39 U	0.39 U	0.39 U	0.17 J,D	0.19 U	0.19 U	1.9 U	19 U	20
10/20/2009	0.05 U	0.27	1.3 E	0.27	0.22	0.05 U	0.05 U	0.12	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.18	0.05 U	0.05 U	0.1 U	5 U	18
10/12/2010	0.049 U	0.3	2.1 E	0.47	0.27	0.049 U	0.049 U	0.18	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U*	0.097 U	0.26	0.049 U	0.049 U	0.097 U	4.9 U	26
10/11/2011	0.048 U	0.28	1.1 D	0.24	0.24	0.048 U	0.048 U	0.090 J	0.096 U	0.096 U	0.096 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	0.17	0.048 U	0.048 U	0.096 U	1.2 Jp	24
10/23/2012	0.049 U	0.18	0.51	0.12	0.16	0.049 U	0.049 U	0.053	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.072	0.049 U	0.049 U	0.049 U	4.9 U	42
10/16/2013	0.048 U	0.19	1.7 E*	0.55	0.21	0.048 U	0.048 U	0.15	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.13	0.048 U	0.048 U	0.048 U	1.5 Jp	23
<b>MW-20D</b>																						
5/5/1998	0.25 U	0.71 O	0.46	0.9	0.77	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	5 U	NA
7/23/1998	0.05 U	0.61	0.35	0.8	0.66	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	1 U	NA	
10/27/1998	0.535 U	0.56 O,R	0.4 J	0.71	0.61	0.53 U	0.53 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U	5.3 U	11	NA
1/13/1999	0.05 U	0.6	0.36	0.77	0.63	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/13/1999	0.2 U	0.61 Q	0.41	0.82	0.63	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	2 U	8 U	NA
8/10/1999	0.2 U	0.66	0.48	0.81	0.68	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	2 U	8 U	NA
10/13/1999	0.05 U	0.51	0.37	0.72	0.51	0.0088 J	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
2/3/2000	0.1 U	0.71	0.52	0.93	0.68	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	1 U	4 U	NA
4/11/2000	0.25 U	0.81	0.67	1.1	0.8	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
7/23/2000	0.25 Q	0.69	0.62	0.92	0.67	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
10/11/2000	0.25 Q	0.8	0.75	1	0.75	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
7/23/1998	0.05 U	0.43	0.33	0.56	0.41	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	NA	
10/27/1998	0.26 U	0.49	0.4	0.63	0.46	0.26 U	0.26 U	0.51 U	0.51 U	0.51 U	0.51 U	0.26 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.26 U	0.26 U	2.6 U	5.1 U	4.2	
1/13/1999	0.25 O, U	0.75	0.57	0.93	0.71	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
4/13/1999	0.2 U	0.59 Q	0.45	0.75	0.55	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	2 U	8 U	4.2	
8/12/1999	0.05 U	0.38	0.33	0.53	0.34	0.05 U	0.05 U	0.1 U	0.013 J	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
10/14/1999	0.05 U	0.41	0.35	0.61	0.35	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
2/3/2000	0.05 U	0.43	0.42	0.66	0.37	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.023 J	0.05 U	0.05 U	0.5 U	2 U	NA
4/12/2000	0.05 U	0.39	0.39	0.58	0.31	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
7/21/2000	0.056 V	0.36	0.36	0.57	0.29	0.056 U	0.056 U	0.11 U	0.11 U	0.11 U	0.11 U	0.056 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.056 U	0.056 U	0.56 U	2.2 U	NA	
10/11/2000	0.05 U	0.43	0.45	0.69	0.35	0.05 U	0.05 U	0.035 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.03 J	0.05 U	0.5 U	2 U	NA	
1/10/2001	0.1 U	0.48 Q	0.61 Q	0.85 Q	0.43 Q	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	1 U	4 U	NA	
10/9/2001	0.05 U	0.44	0.61	0.78	0.37	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
4/9/2002	0.1 G	0.36	0.65	0.72	0.32	0.05 U	0.1 G	0.059 J	0.1 U	0.2 G	0.2 G	0.05 U	0.2 G	0.1 U	0.1 U	0.2 G	0.1 U	0.05 U	0.1 G	0.5 U	2 U	NA	
10/23/2002	0.05 U	0.26	0.5	0.5	0.21	0.05 U	0.05 U	0.022 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.029 J	0.05 U	0.05 U	0.5 U	2 U	NA
10/7/2003	0.1 U	0.43	0.89	0.96	0.4	0.1 U	0.1 U	0.044 J	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.089 J	0.1 U	0.1 U	1 U	4 U	NA
10/22/2004	0.25 U	0.16 J	0.35	0.32	0.16 J	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.057 J	0.25 U	0.25 U	0.11 J	10 U	NA
10/11/2005	0.05 U	0.066	0.12	0.13	0.065	0.05 U	0.05 U	0.0083 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
10/23/2006	0.05 U	0.045 J	0.091	0.082	0.041 J	0.05 U	0.05 U	0.0065 J,PG	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.049 J,PG	0.5 U	2 U	NA	
10/16/2007	0.048 U	0.038 J	0.11	0.088	0.033 J	0.048 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.048 U	0.048 U	0.48 U	1.9 U	NA	
10/14/2008	0.047 U	0.032 J,PG	0.099 PG	0.091	0.029 J,PG	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.047 U	0.47 U	4.7 U	NA	
10/20/2009	0.05 U	0.011 J	0.039 J	0.026 J	0.0068 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.1 U	5 U	NA	
10/13/2010	0.048 U	0.032 J	0.17 p	0.1	0.029 J	0.048 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.048 U	0.048 U	0.095 U	4.8	NA
10/12/2011	0.053 U	0.032 J	0.14 p	0.11	0.018 Jp	0.053 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.053 U	0.11 U	5.3 U	NA	
10/24/2012	0.049 U	0.04 J	0.2	0.081	0.039 J	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	4.9 U	NA	
10/16/2013	0.048 U	0.03 J	0.17 p	0.097	0.024 J	0.0074 Jp	0.01 J	0.018 J	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.018 J	0.048 U	0.048 U	0.048 U	4.8 U	NA	
MW-23D																							
4/21/1998	0.5 U	1.1	4.8	1	0.73	0.5 U	0.5 U	0.51 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.81 J	0.5 U	0.5 U	5 U	10 U	NA
5/5/1998	0.05 U	0.29	0.16	0.072	0.19	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	NA	
7/22/1998	0.05 U	0.29	0.17	0.067	0.2	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	NA	
10/27/1998	0.26 U	0.32	0.2 J	0.062 J	0.26 U	0.26 U	0.26 U	0.51 U	0.51 U	0.51 U	0.51												

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
10/24/2012	0.054 U	0.017 J	0.024 J	0.054 U	0.013 J	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.54 U	NA		
10/16/2013	0.051 U	0.047 J	0.037 Jp	0.012 Jp	0.033 J	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	5.1 U	NA	
<b>MW-26D</b>																							
4/30/1998	0.05 U	0.019 J	0.021 J	0.013 J	0.042 J	<b>0.071 J</b>	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	<b>0.0076 J</b>	0.5 U	1 U	NA
7/23/1998	0.05 U	0.018 J	0.019 J	0.012 J	0.043 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	NA
10/27/1998	0.054 U	0.016 J,R	0.02 J	0.0089 J	0.041 J	0.054 U	0.054 U	0.11 U	0.11 U	0.11 U	0.11 U	0.054 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.054 U	0.054 U	0.54 U	1.1 U	NA
1/19/1999	0.05 U	0.025 J	0.025 J	0.015 J	0.052	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/13/1999	0.05 U	0.021 J	0.021 J	0.012 J	0.047 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
8/12/1999	0.055 U	0.022 J	0.024 J	0.013 J	0.049 J	0.055 U	0.055 U	0.11 U	0.11 U	0.11 U	0.11 U	0.055 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.055 U	0.055 U	0.55 U	2.2 U	NA
10/13/1999	0.05 U	0.021 J	0.024 J	0.012 J	0.05	<b>0.0071 J</b>	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
2/4/2000	0.05 U	0.022 J	0.02 J	0.015 J	0.046 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/13/2000	0.05 U	0.033 J	0.029 J	0.019 J	0.057	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
7/22/2000	0.05 U	<b>0.05</b>	<b>0.05</b>	0.026 J	0.081	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
10/14/2000	0.05 U	0.048 J	0.038 J	0.029 J	0.07	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
1/10/2001	0.05 U	<b>0.065</b>	<b>0.066</b>	0.043 J	0.097	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
10/11/2001	0.05 U	<b>0.056</b>	<b>0.082</b>	<b>0.11</b>	0.085	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/10/2002	0.05 U	<b>0.061</b>	<b>0.074</b>	<b>0.051</b>	0.086	<b>0.19 J</b>	<b>0.015 J</b>	0.031 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.028 J	0.05 U	<b>0.016 J</b>	0.5 U	2 U	NA
10/24/2002	0.05 U	<b>0.069</b>	<b>0.09</b>	<b>0.052</b>	0.1	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
10/6/2003	0.05 U	0.037 J	<b>0.086</b>	0.038 J	0.073	0.05 U	0.05 U	0.0055 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	<b>0.015 J</b>	0.5 U	3 U	NA	
10/21/2004	0.05 U	0.027 J	0.046 J	0.034 J	0.054 J	<b>0.012 J</b>	0.05 U	0.0066 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.01 J	0.05 U	<b>0.015 J</b>	<b>0.016 J</b>	2 U	NA	
10/14/2005	0.05 U	0.02 J	0.029 J	0.019 J	0.046 J	<b>0.027 J</b>	0.05 U	0.0093 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.01 J	0.05 U	<b>0.015 J</b>	<b>0.009 J</b>	2 U	NA		
10/23/2006	0.05 U	0.017 J	0.031 J	0.011 J	0.038 J	<b>0.005 J</b>	0.1 U	0.1 U	0.1 U	0.1 U	0.0093 J	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	<b>0.013 J</b>	0.5 U	2 U	NA		
10/16/2007	0.055 U	0.014 J	0.021 J	0.0085 J	0.032 J	0.055 U	0.055 U	0.11 U	0.11 U	0.11 U	0.11 U	0.055 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.055 U	<b>0.025 J</b>	0.55 U	2.2 U	NA	
10/15/2008	0.055 U	<b>1.4</b>	<b>3</b>	<b>4.4</b>	0.34	0.047 U	0.047 U	0.098	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	<b>0.26</b>	0.047 U	0.047 U	0.47 U	4.7 U	NA	
10/20/2009	0.05 U	0.05 U	0.05 U	0.05 U	0.015 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.1 U	5 U	NA	
10/13/2010	0.049 U	0.010 J	0.0089 Jp	0.0084 Jp	0.027 J	<b>0.016 J</b>	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.049 U	0.097 U	4.9 U	NA	
10/12/2011	0.051 U	0.014 J	0.013 Jp	0.051 U	0.029 J	0.051 U	0.051 U	0.10 U	0.10 U	0.10 U	0.10 U	0.051 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.051 U	0.051 U	0.10 U	5.1 U	NA	
10/25/2012	0.047 U	0.0082 J	0.0093 Jp	0.047 U	0.021 J	<b>0.014 Jp</b>	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.47 U	NA	
10/17/2013	0.048 U	0.																					

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	**	
10/20/2009	0.05 U	<b>0.084</b>	<b>2.8 E</b>	<b>0.3</b>	0.079	0.05 U	0.05 U	<b>0.36</b>	0.1 U	0.1 U	<b>0.077 J</b>	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.31	0.05 U	<b>0.022 J</b>	0.1 U	5 U	28	
10/12/2010	0.048 U	<b>0.24 JD</b>	<b>5.1 D</b>	<b>0.41 JD</b>	<b>0.20 JD</b>	0.048 U	0.048 U	<b>0.36 JD</b>	0.095 U	0.095 U	0.095 U	0.048 U	0.095 U	0.095 U*	0.095 U	0.095 U	<b>0.62 JD</b>	0.48 U	0.48 U	0.095 U	48 U	7.8	
10/11/2011	0.048 U	<b>0.10</b>	<b>3.3 D</b>	<b>0.44</b>	0.087	0.048 U	0.048 U	<b>0.29</b>	0.096 U	0.096 U	0.096 U	0.048 U	0.096 U	0.096 U	0.096 U	0.096 U	<b>0.43</b>	0.048 U	0.048 U	0.096 U	<b>4.3 Jp</b>	2.9	
10/23/2012	0.48 U	<b>0.17 JD</b>	<b>6.3 D</b>	<b>2.2 D</b>	0.14 JD	0.48 U	0.48 U	<b>0.48 D</b>	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	<b>11 JD</b>	6.7	
10/16/2013	0.049 U	<b>0.12</b>	<b>2.4 Ep</b>	<b>1.1 Ep</b>	0.068 p	0.049 U	<b>0.065 p</b>	<b>0.21 p</b>	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	<b>0.24</b>	0.049 U	0.049 U	0.049 U	<b>3.7 Jp</b>	<b>0.21 J</b>	
<b>MW-22L</b>																							
5/5/1998	0.5 U	<b>3.4 O</b>	<b>1.8</b>	<b>2.7</b>	<b>3</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	10 U	NA	
7/23/1998	0.5 U	<b>4.4</b>	<b>2.5</b>	<b>3.9</b>	<b>3.9</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	10 U	NA	
10/27/1998	2.6 U	<b>3.7</b>	<b>2.3 J</b>	<b>3.1</b>	<b>3.3</b>	2.6 U	2.6 U	5.1 U	5.1 U	5.1 U	5.1 U	2.6 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	0.26 U	0.26 U	2.6 U	51 U	NA	
1/13/1999	0.5 U,O	<b>4</b>	<b>2.1</b>	<b>3.4</b>	<b>3.5</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
4/13/1999	1 U	<b>4 Q</b>	<b>2.2</b>	<b>3.5</b>	<b>3.6</b>	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	10 U	40 U	NA	
8/12/1999	0.26 U	<b>4</b>	<b>2.2</b>	<b>3.6</b>	<b>3.6</b>	0.26 U	0.26 U	<b>0.12 J</b>	<b>0.081 J</b>	0.53 U	0.53 U	0.26 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.26 U	0.26 U	2.6 U	11 U	NA	
10/14/1999	0.5 U	<b>3.2</b>	<b>1.8</b>	<b>2.8</b>	<b>2.8</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
2/4/2000	0.25 U	<b>3.3 Q</b>	<b>1.8</b>	<b>2.9</b>	<b>3</b>	0.25 U	0.25 U	0.074 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.095 J	0.25 U	0.25 U	2.5 U	10 U	NA
4/11/2000	0.25 U,Q	<b>2.4</b>	<b>1.5</b>	<b>2.3</b>	<b>2.2</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
7/21/2000	0.25 U,Q	<b>2.5</b>	<b>1.5</b>	<b>2.4</b>	<b>2.3</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
10/11/2000	0.25 U,Q	<b>2.7</b>	<b>1.6</b>	<b>2.5</b>	<b>2.4</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
1/10/2001	0.5 U	<b>2.7 Q</b>	<b>1.8 Q</b>	<b>2.5 Q</b>	<b>2.5 Q</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
10/10/2001	0.5 U	<b>2.1</b>	<b>1.8</b>	<b>2.1</b>	<b>1.8</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
4/9/2002	<b>0.5 G</b>	<b>1.1</b>	<b>1.2</b>	<b>1.8</b>	<b>0.61</b>	0.25 U	0.25 U	<b>0.2 J</b>	0.5 U	0.5 U	<b>1 G</b>	0.25 U	<b>1 G</b>	0.5 U	0.5 U	0.5 U	<b>0.18 J</b>	0.25 U	<b>0.5 G</b>	2.5 U	10 U	NA	
10/23/2002	0.5 U	<b>1.2</b>	<b>1.5</b>	<b>2.1</b>	<b>0.56</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	2 U	NA	
10/7/2003	0.25 U	<b>1.2</b>	<b>1.4</b>	<b>2.2</b>	<b>0.68</b>	0.25 U	0.25 U	0.079 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	<b>0.13 J</b>	0.25 U	0.25 U	2.5 U	10 U	NA
10/21/2004	0.5 U	<b>1</b>	<b>1.5</b>	<b>1.7</b>	<b>0.66</b>	0.5 U	0.5 U	<b>0.2 J,PG</b>	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	<b>0.11 J</b>	<b>0.2 J</b>	0.5 U	0.5 U	5 U	<b>6.4 J</b>	NA
10/11/2005	0.5 U	<b>0.91</b>	<b>1.2</b>	<b>1.5</b>	<b>0.75</b>	0.5 U	0.5 U	0.075 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
10/23/2006	0.5 U	<b>1.1</b>	<b>1.4</b>	<b>1.7</b>	<b>0.95</b>	0.5 U	0.5 U	<b>0.1 J,PG</b>	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
10/15/2007	0.25 U	<b>0.99</b>	<b>1.1</b>	<b>1.4</b>	<b>0.81</b>	0.25 U	0.25 U	0.035 J	0.5 U	0.5 U	<b>0.027 J</b>	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
10/14/2008	0.049 U	<b>0.66</b>	<b>0.76</b>	<b>0.97</b>	<b>0.44</b>	0.049 U	0.049 U	0.049 U	0.046 J	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.035 J	0.049 U	0.49 U	4.9 U	NA	
10/20/2009	0.05 U	<b>0.22</b>	<b>0.32</b>	<b>0.38</b>	<b>0.2</b>	0.05 U	0.05 U	0.014 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.1 U	5 U	NA	
10/13/2010	0.05 U	<b>0.34</b>	<b>0.52 p</b>	<b>0.6</b>	<b>0.3</b>	0.05 U	0.05 U	0.033 J	0.1 U	0.1 U	0.1 U	0.05 U	<b>0.021 J</b>	0.1 U</									

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
<b>MW-25L</b>																							
5/5/1998	0.5 U	3.1	0.53	1.2	2.5	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	10 U	NA	
7/23/1998	0.25 U	3.1	0.53	0.96	2.5	0.25 U	0.25 U	1 U	1 U	1 U	1 U	0.25 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.25 U	2.5 U	5 U	NA	
10/29/1998	2.5 U	2.9	0.57 J	0.89 J	2.4 J	2.5 U	2.5 U	5.1 U	5.1 U	5.1 U	5.1 U	2.5 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	2.5 U	2.5 U	25 U	51 U	NA	
1/14/1999	0.5 U,O	3.7	0.63	1.2	3.1	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
4/14/1999	0.5 U,Q	3.7	0.63	1.2	3.1	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
8/12/1999	0.27 U	3.7	0.62	1.2	3.1	0.27 U	0.27 U	0.54 U	0.54 U	0.54 U	0.54 U	0.27 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.27 U	0.27 U	2.7 U	11 U	NA	
10/12/1999	0.5 U	3.2	0.57	1.1	2.7	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
2/3/2000	0.25 U	3.5	0.55	1.2	2.9	0.25 U	0.25 U	1 U	1 U	1 U	1 U	0.25 U	1 U	1 U	1 U	1 U	1 U	0.25 U	0.25 U	2.5 U	10 U	NA	
4/12/2000	0.5 U	2.4	1.5	2.3	2.2	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
7/23/2000	0.25 U,Q	3.4	0.56	1.2	2.9	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
10/12/2000	0.25 U,Q	3.2	0.54	1	2.6	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
1/10/2001	0.5 J4	3.7 Q,J4	0.72 Q,J4	1.3 Q,J4	3.2 Q,J4	0.5 J4	0.5 J4	1	1 J4	1 J4	1 J4	0.5 J4	1 J4	1 J4	1 J4	1 J4	1 J4	0.5 J4	0.5 J4	5 J4	20 J4	NA	
10/11/2001	0.25 U	1.7	0.35	0.68	1.2	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA	
4/10/2002	0.5 U	2.5	0.57	1.1	1.8	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	NA	
10/24/2002	0.25 U	2.3	0.58	1.1	1.5	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	2 U	NA	
10/8/2003	NR	1.6	0.59	0.97	0.99	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
10/20/2004	0.25 U	1.4	0.56	0.89	0.73	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.20 J	0.5 U	0.5 U	0.059 J	0.25 U	0.25 U	0.079 J	10 U	NA	
10/14/2005	0.5 U	1.5	0.6	0.93	0.7	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	5 U	20 U	NA	
10/23/2006	1 U	1.4	0.79 J	1.3	0.65 J	1 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	10 U	40 U	NA	
10/15/2007	0.47 U	1.5	0.63	1.1	0.54	0.47 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U	0.47 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.47 U	0.47 U	4.7 U	19 U	NA	
10/15/2008	0.049 U	1.2	0.53	1.2	0.47	0.049 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.049 U	0.49 U	4.9 U	NA	
10/20/2009	0.05 U	0.62	0.43	0.84 E	0.069	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.1 U	5 U	NA	
10/13/2010	0.048 U	1.0 E	0.49 p	1.3 E	0.13	0.048 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.025 J	0.048 U	0.048 U	0.095 U	4.8 U	NA
10/12/2011	0.050 U	0.87 D	0.54 p	1.1 D	0.15	0.050 U	0.050 U	0.099 U	0.099 U	0.099 U	0.099 U	0.050 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.050 U	0.050 U	0.099 U	5.0 U	NA	
10/24/2012	0.20 U	0.88 D	0.56 D	0.97 D	0.1 JD	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	20 U	NA	
10/16/2013	0.051 U	0.93 E	0.64	1.4 E	0.13	0.051 U	0.051 U	0.028 J	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.033 J	0.051 U	0.051 U	0.051 U	5.1 U	NA	
<b>MW-27L</b>																							
5/5/1998	0.5 U	9.9	2.5	4.7	7.9	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.15 J	0.5 U	0.5 U	5 U	10 U	NA
7/23/1998	2 U	10	3	4.6	8.4	2 U	2 U	4 U	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4 U	2 U	2 U	20 U	40 U	NA	
11/4/1998	2.6 U	11 O	3	5.6	9.4	2.6 U	2.6 U	5.3 U	5.3 U	5.3 U	5.3 U	2.6 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	2.6 U	2.6 U	26 U	53 U	NA	
1/14/1999	2.5 U,O	12																					

**TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS**

SAMPLE ID	PCP Analysis Data																						
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
	PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
10/12/2011	0.050 U	1.0 D	2.2 D	2.7 D	0.22	0.050 U	0.050 U	0.11	0.10 U	0.024 Jp	0.10 U	0.050 U	0.10 U	0.10 U	0.10 U	0.22	0.050 U	0.050 U	0.10 U	5.0 U	NA		
10/24/2012	0.19 U	1.1 D	2.1 D	2.4 D	0.14 JD	0.19 U	0.19 U	0.11 JD	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.16 JD	0.19 U	0.19 U	0.19 U	19 U	NA		
10/17/2013	0.018 Jp	1.3 E	2.4 E*	2.4 Ep	0.21	0.047 U	0.047 U	0.17	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.23	0.047 U	0.047 U	0.047 U	2.1 Jp	NA		
<b>MW-31L</b>																							
5/4/1998	0.5 U	2 O	0.49 J	0.95	1.8	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	10 U	NA	
7/23/1998	0.2 U	3 O	0.65	1.2	2.5	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	2 U	4 U	NA	
10/28/1998	0.51 U	2.7	0.64	0.99	2.3	0.51 U	0.51 U	1 U	1 U	1 U	1 U	0.51 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	5.1 U	10 U	NA	
1/12/1999	0.5 U,O	2.2	0.6	0.81	1.8	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA	
4/13/1999	0.5 U	3.5 Q	0.9	1.4	2.8	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA	
8/11/1999	0.28 U	3.4	0.8	1.3	2.8	0.28 U	0.28 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.28 U	0.28 U	2.8 U	11 U	NA
10/13/1999	0.25 U	3.1	0.8	1.4	2.6	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA
2/3/2000	0.25 U	3.6	0.79	1.5	2.9	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA
4/13/2000	0.25 U	3.5	0.82	1.5	2.9	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA
7/21/2000	0.5 U,Q	2.7	0.82	1.5	1.7	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA	
10/12/2000	0.25 U	2.3 Q	0.85	1.5	1	0.25 U	0.25 U	0.029 J	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA	
1/11/2001	0.25 U	2.1 Q	0.92 Q	1.6 Q	0.97 Q	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA	
10/12/2001	0.25 U	2.2	0.62	1.1	1.2	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA	
4/10/2002	0.5 U	2.3	0.47 J	0.86	1.8	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA	
10/22/2002	0.25 U	1.2	0.61	0.74	0.62	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	2 U	NA	
10/7/2003	0.5 U	1.9	0.92	1.4	0.87	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA	
10/21/2004	0.5 U	2.4	1.2	1.4	1.5	0.5 U	0.5 U	0.039 J	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.1 J,PG	0.5 U	0.5 U	5 U	20 U	NA	
10/13/2005	0.5 U	2.1	0.8	1	1.3	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA	
10/23/2006	1 U	2	1.2	1.8	0.89 J	1 U	1 U	2 PG	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	10 U	40 U	NA	
10/16/2007	0.048 U	1.9	1	1.4	0.63	0.48 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.48 U	0.95 U	0.95 U	0.95 U	0.95 U	0.48 U	0.48 U	4.8 U	19 U	NA		
10/14/2008	0.047 U	1.2	0.72	1.1	0.25	0.047 U	0.047 U	0.02 J	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.036 J	0.047 U	0.047 U	0.47 U	4.7 U	NA	
10/21/2009	0.05 U	0.58	0.52	0.76	0.099	0.05 U	0.05 U	0.018 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.035 J	0.05 U	0.05 U	0.1 U	5 U	NA		
10/14/2010	0.20 U	1.0 D	1.1 D	1.4 D	0.18 JD	0.20 U	0.20 U	0.41 U	0.41 U	0.41 U	0.41 U	0.20 U	0.41 U	0.41 U	0.41 U	0.41 U	0.20 U	0.20 U	0.41 U	20 U	NA		
10/12/2011	0.054 U	0.59	0.65	0.69	0.16	0.054 U	0.054 U	0.11 U	0.11 U	0.11 U	0.11 U	0.054 U	0.11 U	0.11 U	0.11 U	0.021 Jp	0.054 U	0.054 U	0.11 U	5.4 U	NA		
10/24/2012	0.048 U	0.47	0.47	0.53	0.14	0.048 U	0.048 U	0.020 J	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.028 J	0.048 U	0.048 U	0.048 U	4.8 U	NA		
10/17/2013	0.053 U	0.57	0.75	1 E	0.095	0.015 J	0.053 U	0.032 J	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.056	0.053 U	0.053 U	0.021 J	0.053 U	5.3 U	NA	
<b>MW-32L</b>																							
4/30/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	NA		
7/23/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	1 U	NA		
10/28/1998	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.11 U	0.11 U	0.11 U	0.11 U	0.055 U	0.11 U	0.11 U	0.11 U	0.11 U	0.055 U	0.055 U	0.55 U	1.1 U	NA		
1/19/1999	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA		
4/13/1999	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA		
8/11/1999	0.05 U	0.05 U	0.05 U	0.0																			

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																						
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**
10/14/2008	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.047 U	0.47 U	4.7 U	NA	
10/21/2009	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.1 U	5 U	NA	
10/14/2010	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.1 U	0.1 U	0.1 U	0.1 U	0.051 U	0.1 U	0.1 U	0.1 U	0.1 U	0.051 U	0.051 U	0.1 U	5.0 U	NA	
10/12/2011	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.10 U	0.10 U	0.10 U	0.10 U	0.052 U	0.10 U	0.10 U	0.10 U	0.10 U	0.052 U	0.052 U	0.10 U	5.2 U	NA	
10/25/2012	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	NA	
10/17/2013	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	NA	
<b>MW-36L</b>																						
5/5/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	1 U	NA	
7/22/1998	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	1 U	NA	
11/4/1998	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.1 U	0.1 U	0.1 U	0.1 U	0.052 U	0.1 U	0.1 U	0.1 U	0.1 U	0.052 U	0.052 U	0.52 U	1 U	NA	
1/14/1999	0.05 U	0.05 U	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
4/14/1999	0.05 U	0.05 U	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
8/13/1999	0.05 U	0.05 U	0.013 J	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
10/12/1999	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	2 U	NA	
2/3/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
4/11/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
7/22/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/13/2000	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
1/11/2001	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/11/2001	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
4/10/2002	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/24/2002	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/7/2003	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/21/2004	0.05 U	0.05 U	0.05 U	0.007 J	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/14/2005	0.05 U	0.05 U	0.05 U	0.012 J	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/23/2006	0.05 U	0.05 U	0.05 U	0.012 J	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.05 U	0.5 U	2 U	NA	
10/15/2007	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.1 U	0.1 U	0.1 U	0.1 U	0.052 U	0.1 U	0.1 U	0.1 U	0.1 U	0.052 U	0.052 U	0.52 U	2.1 U	NA	
10/16/2008	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.047 U	0.47 U	4.7 U	NA	
10/20/2009	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.5 U	5 U	NA	
10/13/2010	0.048 U	0.010 J	0.048 U	0.014 Jp	0.048 U	0.048 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.095 U	0.095 U	0.095 U	0.095 U	0.048 U	0.048 U	0.095 U	5.0 U	NA	
10/12/2011																						

**TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS**

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**	
10/22/2002	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	2 U	NA	
10/7/2003	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	2 U	NA	
10/21/2004	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0044 J	0.0032 J	0.0036 J	0.006 J	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0009 J	0.32 J	2 U	NA
10/13/2005	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	1 U	4 U	NA	
10/24/2006	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.5 U	2 U	NA	
10/15/2007	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.047 U	0.047 U	0.47 U	1.9 U	NA	
10/14/2008	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	4.7 U	NA	
10/20/2009	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.1 U	5 U	NA	
10/14/2010	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.049 U	0.097 U	4.9 U	NA	
10/13/2011	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.097 U	0.097 U	0.097 U	0.097 U	0.048 U	0.097 U	0.097 U	0.097 U	0.097 U	0.048 U	0.048 U	0.048 U	0.097 U	4.8 U	NA	
10/24/2012	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	4.7 U	NA	
10/17/2013	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	4.8 U	NA	
<b>MW-40L</b>																							
4/30/1998	0.05 U	<b>0.79</b>	0.1	0.2	<b>0.69</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.012 J	0.05 U	0.05 U	0.5 U	1 U	NA
7/23/1998	0.25 U	<b>2.4 O</b>	<b>0.28</b>	<b>0.66</b>	<b>2</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	5 U	NA
11/4/1998	0.51 U	<b>3.2</b>	<b>0.4 J</b>	<b>0.9</b>	<b>2.6</b>	0.51 U	0.51 U	1 U	1 U	1 U	1 U	0.51 U	1 U	1 U	1 U	1 U	1 U	0.51 U	0.51 U	0.51 U	5.1 U	10 U	NA
1/19/1999	0.5 U	<b>2.1</b>	<b>0.33 J</b>	<b>0.63</b>	<b>1.8</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA
4/14/1999	0.5 U,Q	<b>2</b>	<b>0.26 J</b>	<b>0.52</b>	<b>1.6</b>	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U	0.5 U	5 U	20 U	NA
8/11/1999	0.27 U	<b>3.3</b>	<b>0.44</b>	<b>1</b>	<b>2.6</b>	0.27 U	0.27 U	0.54 U	0.54 U	0.54 U	0.54 U	0.27 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.27 U	0.27 U	0.27 U	2.7 U	11 U	NA
10/13/1999	0.25 U	<b>2</b>	<b>0.32</b>	<b>0.73</b>	<b>1.5</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
2/3/2000	0.1 U	<b>1.5</b>	<b>0.2</b>	<b>0.46</b>	<b>1.1</b>	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	1 U	4 U	NA
4/13/2000	0.25 U,Q	<b>1.7</b>	<b>0.41</b>	<b>0.81</b>	<b>0.93</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
7/22/2000	0.25 U,Q	<b>2</b>	<b>0.45</b>	<b>1.1</b>	<b>0.85</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
10/13/2000	0.25 U,Q	<b>1.8</b>	<b>0.47</b>	<b>1</b>	<b>0.67</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
1/11/2001	0.25 U	<b>1.9 Q</b>	<b>0.57 Q</b>	<b>1.3 Q</b>	<b>0.89 Q</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
10/11/2001	0.25 U	<b>1.2</b>	<b>0.45</b>	<b>0.76</b>	<b>0.18 J</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
4/10/2002	0.3 U	<b>0.97</b>	<b>0.3</b>	<b>0.64</b>	<b>0.32</b>	0.3 U	0.3 U	6 U	6 U	6 U	6 U	0.3 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	3 U	12 U	NA
10/24/2002	0.25 U	<b>1.1</b>	<b>0.49</b>	<b>0.97</b>	<b>0.17 J</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
10/7/2003	0.05 U	<b></b>																					

**TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS**

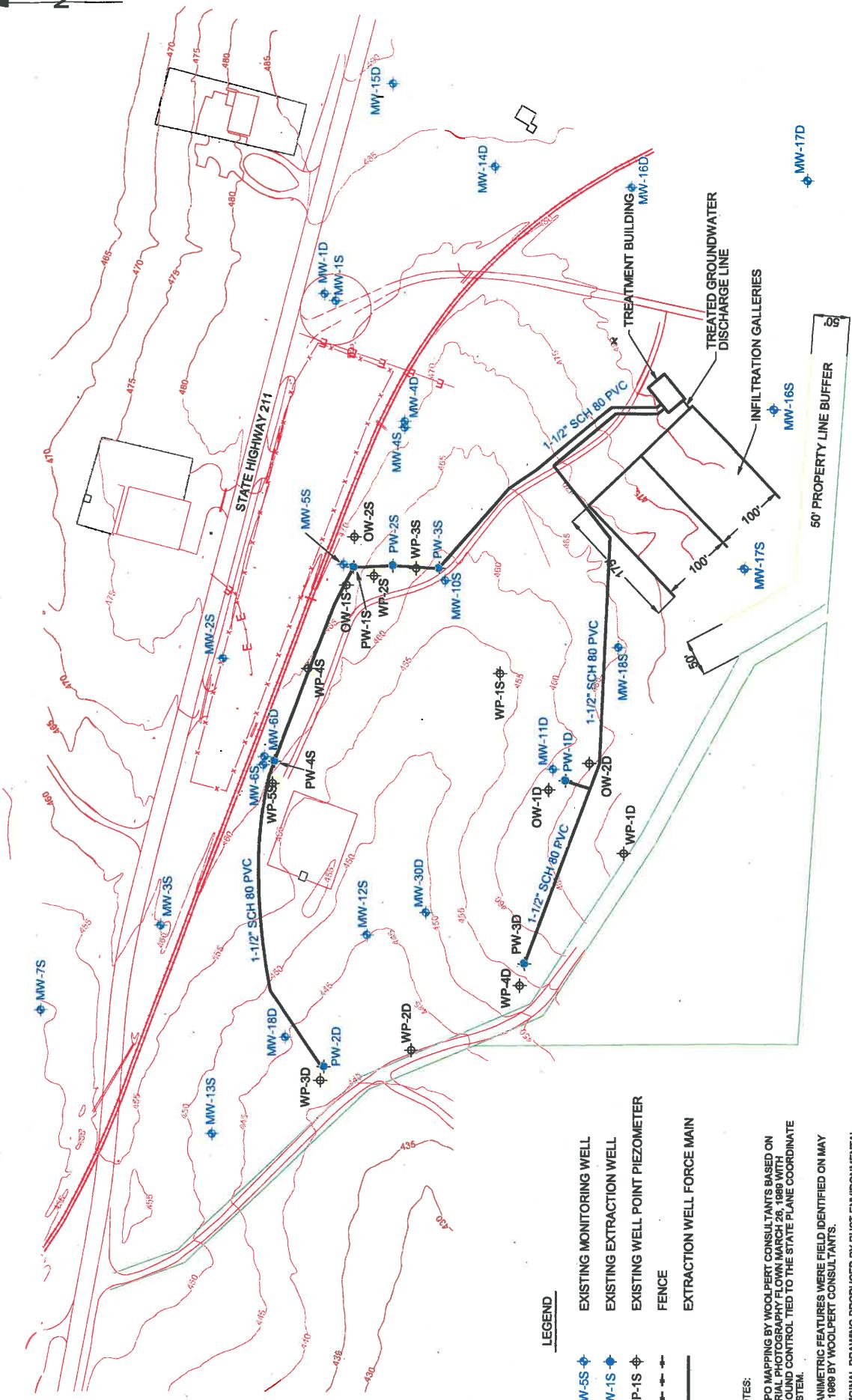
SAMPLE ID	Pesticide Concentration Data (ppb)																					
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene
PERFORMANCE STANDARD	0.05	0.05	0.05	0.05	0.2	NE	NE	0.1	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	1	**
<b>PZ-2</b>																						
4/30/1998	0.05 U	<b>0.67</b>	<b>0.17</b>	<b>0.27</b>	<b>0.59</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.012 J	0.05 U	0.05 U	0.5 U	1 U	NA
7/23/1998	0.2 U	<b>0.9 O</b>	<b>0.23</b>	<b>0.38</b>	<b>0.78</b>	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	2 U	4 U	NA
10/28/1998	0.053 U	<b>0.98 R</b>	<b>0.24</b>	<b>0.43</b>	<b>0.83</b>	0.053 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.053 U	0.053 U	0.53 U	1.1 U	NA
1/19/1999	0.05 U	<b>1</b>	<b>0.25</b>	<b>0.45</b>	<b>0.87</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/15/1999	0.2 U	<b>0.91 Q</b>	<b>0.25</b>	<b>0.38</b>	<b>0.8</b>	0.2 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	0.4 U	0.2 U	0.2 U	0.2 U	2 U	8 U	NA
8/11/1999	0.053 U	<b>0.91</b>	<b>0.22</b>	<b>0.38</b>	<b>0.79</b>	0.053 U	0.0553 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.053 U	0.053 U	0.53 U	2.1 U	NA
10/14/1999	0.25 U	<b>0.83</b>	<b>0.22 J</b>	<b>0.34</b>	<b>0.71</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
2/4/2000	0.05 U	<b>0.59</b>	<b>0.21</b>	<b>0.39</b>	<b>0.78</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/13/2000	0.05 U	<b>0.79</b>	<b>0.21</b>	<b>0.35</b>	<b>0.7</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
7/23/2000	0.1 U,Q	<b>0.92</b>	<b>0.24</b>	<b>0.4</b>	<b>0.82</b>	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	1 U	4 U	NA
10/12/2000	0.05 U	<b>0.79</b>	<b>0.2</b>	<b>0.33</b>	<b>0.69</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
1/11/2001	0.25 U	<b>0.87 Q</b>	<b>0.27 Q</b>	<b>0.4 Q</b>	<b>0.81 Q</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
10/9/2001	0.25 U	<b>0.62</b>	<b>0.17 J</b>	<b>0.25</b>	<b>0.56</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	0.25 U	2.5 U	10 U	NA
4/10/2002	0.05 U	<b>0.56</b>	<b>0.17</b>	<b>0.28</b>	<b>0.5</b>	0.05 U	0.05 U	0.034 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.032 J	0.05 U	0.05 U	0.5 U	2	NA
10/22/2002	0.05 U	<b>0.72</b>	<b>0.2</b>	<b>0.33</b>	<b>0.62</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
10/7/2003	0.05 U	<b>0.5</b>	<b>0.16</b>	<b>0.25</b>	<b>0.46</b>	0.05 U	0.05 U	0.0062 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
10/21/2004	0.05 U	<b>0.56</b>	<b>0.28 J</b>	<b>0.37</b>	<b>0.48</b>	0.5 U	0.8 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	<b>0.19 J</b>	0.5 U	0.41 J	5 U	20 U	NA
10/13/2005	0.0072 J	<b>0.59</b>	<b>0.21 J</b>	<b>0.31</b>	<b>0.43</b>	0.05 U	0.05 U	0.012 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
10/23/2006	0.1 U	<b>0.6</b>	<b>0.25</b>	<b>0.36</b>	<b>0.46</b>	0.1 U	0.1 U	0.015 J,PG	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	1 U	4 U	NA
10/16/2007	0.094 U	<b>0.78</b>	<b>0.27</b>	<b>0.43</b>	<b>0.58</b>	0.094 U	0.094 U	0.012 J	0.19 U	0.19 U	0.19 U	0.094 U	0.19 U	0.19 U	0.19 U	0.19 U	0.094 U	0.094 U	0.094 U	0.94 U	3.8 U	NA
10/14/2008	0.049 U	<b>0.59</b>	<b>0.25</b>	<b>0.39</b>	<b>0.39</b>	0.049 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.049 U	0.049 U	4.9 U	NA
10/21/2009	0.05 U	<b>0.34</b>	<b>0.17</b>	<b>0.27</b>	<b>0.22</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.1 U	5 U	NA
10/13/2010	0.049 U	<b>0.45</b>	<b>0.22 p</b>	<b>0.36</b>	<b>0.24</b>	0.049 U	0.049 U	0.013 J	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.049 U	0.049 U	4.9 U	NA
10/13/2011	0.050 U	<b>0.43</b>	<b>0.25</b>	<b>0.34</b>	<b>0.28</b>	0.050 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.050 U	0.10 U	0.10 U	0.10 U	0.10 U	0.050 U	0.050 U	0.050 U	0.10 U	5.0 U	NA
10/24/2012	0.051 U	<b>0.38</b>	<b>0.18</b>	<b>0.24</b>	<b>0.27</b>	0.051 U	0.051 U	0.014 J	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	5.1 U	NA	
10/17/2013	0.049 U	<b>0.31</b>	<b>0.19</b>	<b>0.22</b>	<b>0.2</b>	0.049 U	0.049 U	0.015 J	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	4.9 U	NA	
<b>PZ-3</b>																						
4/30/1998	0.05 U	<b>0.33</b>	<b>0.08</b>	<b>0.1</b>	<b>0.29</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0096 J	0.05 U	0.05 U	0.5 U	1 U	NA
7/23/1998	0.05 U	<b>0.42</b>	<b>0.091</b>	<b>0.14</b>	<b>0.36</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	1 U	NA
10/28/1998	0.053 U	<b>0.42 R</b>	<b>0.097</b>	<b>0.14</b>	<b>0.37</b>	0.053 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.11 U	0.11 U	0.11 U	0.11 U	0.053 U	0.053 U	0.053 U	0.53 U	1.1 U	NA
1/19/1999	0.05 U	<b>0.44</b>	<b>0.1</b>	<b>0.15</b>	<b>0.38</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.05 U	0.05 U	0.5 U	2 U	NA
4/15/1999	0.05 U	<b>0.43</b>	<b>0.091</b>	<b>0.15</b>	<b>0.38</b>	0.05 U	0.05 U	0.1 U	0.1 U													

TABLE 4: HISTORICAL SUMMARY OF GROUNDWATER SAMPLE RESULTS

SAMPLE ID																							
COLLECTION DATE	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	alpha-Chlordane	gamma-Chlordane	Dieldrin	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Trichloroethene	
PERFORMANCE STANDARD	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.2</b>	NE	NE	<b>0.1</b>	NE	NE	NE	NE	NE	NE	NE	<b>0.1</b>	NE	NE	NE	1	**		
10/13/2011	0.049 U	<b>0.29</b>	<b>0.11 p</b>	<b>0.19</b>	<b>0.20</b>	0.049 U	0.049 U	0.98 U	0.98 U	0.98 U	0.98 U	0.049 U	0.098 U	0.98 U	0.98 U	0.98 U	0.049 U	0.049 U	0.098 U	4.9 U	NA		
10/24/2012	0.047 U	<b>0.3</b>	<b>0.15</b>	<b>0.17</b>	0.19	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	4.7 U	NA		
10/17/2013	0.051 U	<b>0.24</b>	<b>0.093</b>	<b>0.14</b>	0.17	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	5.1 U	NA		
PZ-5																							
5/5/1998	0.05 U	0.05 U	0.015 J	0.05 U	0.015 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	1	NA		
7/23/1998	0.05 U	0.05 U	0.019 J	0.05 U	0.018 J	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	1	NA		
10/28/1998	0.056 U,R	0.056 U	0.028 J	0.056 U	0.035 J	0.056 U	0.056 U	0.11 U	0.11 U	0.11 U	0.11 U	0.056 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.056 U	0.056 U	0.56 U	1.1 U	NA	
1/19/1999	0.05 U	0.02 J	0.039 J	0.05 U	0.07	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
4/15/1999	0.05 U	0.048 J	0.046 J	0.05 U	0.12	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
8/11/1999	0.054 U	<b>0.087</b>	<b>0.066</b>	0.0094 J	0.18	0.054 U	0.054 U	0.11 U	0.11 U	0.11 U	0.11 U	0.054 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.054 U	0.054 U	0.54 U	2.2 U	NA	
10/14/1999	0.05 U	<b>0.073</b>	<b>0.055</b>	0.0064 J	0.16	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
2/3/2000	0.05 U	<b>0.083</b>	<b>0.06</b>	<b>0.066 J</b>	0.18	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
4/13/2000	0.05 U	<b>0.1</b>	<b>0.064</b>	0.0095	0.19	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
7/22/2000	0.05 U	<b>0.12</b>	<b>0.074</b>	<b>0.05</b>	<b>0.23</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
10/13/2000	0.05 U	<b>0.11</b>	<b>0.069</b>	0.0087 J	<b>0.21</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
1/11/2001	0.05 U	<b>0.14</b>	<b>0.084</b>	0.015 J	<b>0.25</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
10/10/2001	0.05 U	<b>0.18</b>	<b>0.069</b>	0.021 J	<b>0.26</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
4/11/2002	0.05 U	<b>0.27</b>	<b>0.11</b>	<b>0.059</b>	<b>0.37</b>	0.05 U	0.05 U	0.03 J	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.03 J	0.05 U	0.5 U	2 U	NA	
10/23/2002	0.05 U	<b>0.32</b>	<b>0.11</b>	<b>0.051</b>	<b>0.41</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.5 U	2 U	NA		
10/8/2003	0.1 U	<b>0.64</b>	<b>0.2</b>	<b>0.13</b>	<b>0.79</b>	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	1 U	4 U	NA		
10/21/2004	0.25 U	<b>0.66</b>	<b>0.31</b>	<b>0.21</b>	<b>0.78</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.061 J	0.082 J,PG	0.25 U	<b>0.015 J</b>	2.5 U	10 U	NA
10/13/2005	0.25 U	<b>0.47</b>	<b>0.13 J</b>	<b>0.11 J</b>	<b>0.51</b>	0.25 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25 U	0.25 U	2.5 U	10 U	NA		
10/23/2006	0.5 U	<b>1</b>	<b>0.29 J</b>	<b>0.37 J</b>	1.1	0.5 U	0.5 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	1 U	1 U	1 U	0.5 U	5 U	20 U	NA		
10/15/2007	0.024 U	<b>1.4</b>	<b>0.29</b>	<b>0.34</b>	1.3	0.24 U	0.24 U	0.48 U	0.48 U	0.48 U	0.48 U	0.24 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.24 U	2.4 U	9.5 U	NA		
10/14/2008	0.049 U	<b>0.89</b>	<b>0.37</b>	<b>0.44</b>	<b>0.85</b>	0.049 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.49 U	4.9 U	NA		
10/21/2009	0.05 U	<b>0.96 E</b>	<b>0.28</b>	<b>0.31</b>	<b>0.92 E</b>	0.05 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.05 U	0.1 U	5 U	NA		
10/14/2010	0.049 U	<b>1.6 E</b>	<b>0.27 p</b>	<b>0.46</b>	<b>1.5 E</b>	0.049 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.049 U	0.049 U	0.097 U	4.9 U	NA	
10/12/2011	0.050 U	<b>0.93 D</b>	<b>0.28 *</b>	<b>0.43</b>	<b>0.89 D</b>	0.050 U	0.050 U	0.099 U	0.099 U	0.099 U	0.099 U	0.050 U	0.099 U	0.099 U	0.099 U	0.099 U	0.018 J	0.050 U	0.050 U	0.099 U	5.0 U	NA	
10/24/2012	0.21 U	<b>1.7 D</b>	<b>0.34 D</b>	<b>0.42 D</b>	<b>1.5 D</b>	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	21 U	NA		
10/17/2013	0.05 U	<b>2 E</b>	<b>0.48</b>	<b>0.55</b>	<b>1.7 E</b>	0.05 U	0.05 U	0.05 U															

**ATTACHMENT 2**

**MONITORING LOCATIONS AND DETECTED CONSTITUENTS  
OCTOBER 2013 MONITORING EVENT**



**FIGURE 1**  
EXTRACTION AND TREATMENT SYSTEM SITE LAYOUT

Geigy Chemical Corporation  
Aberdeen, North Carolina

APPROVED BY:  
*Curt*

APPROVED BY:  
*Curt*

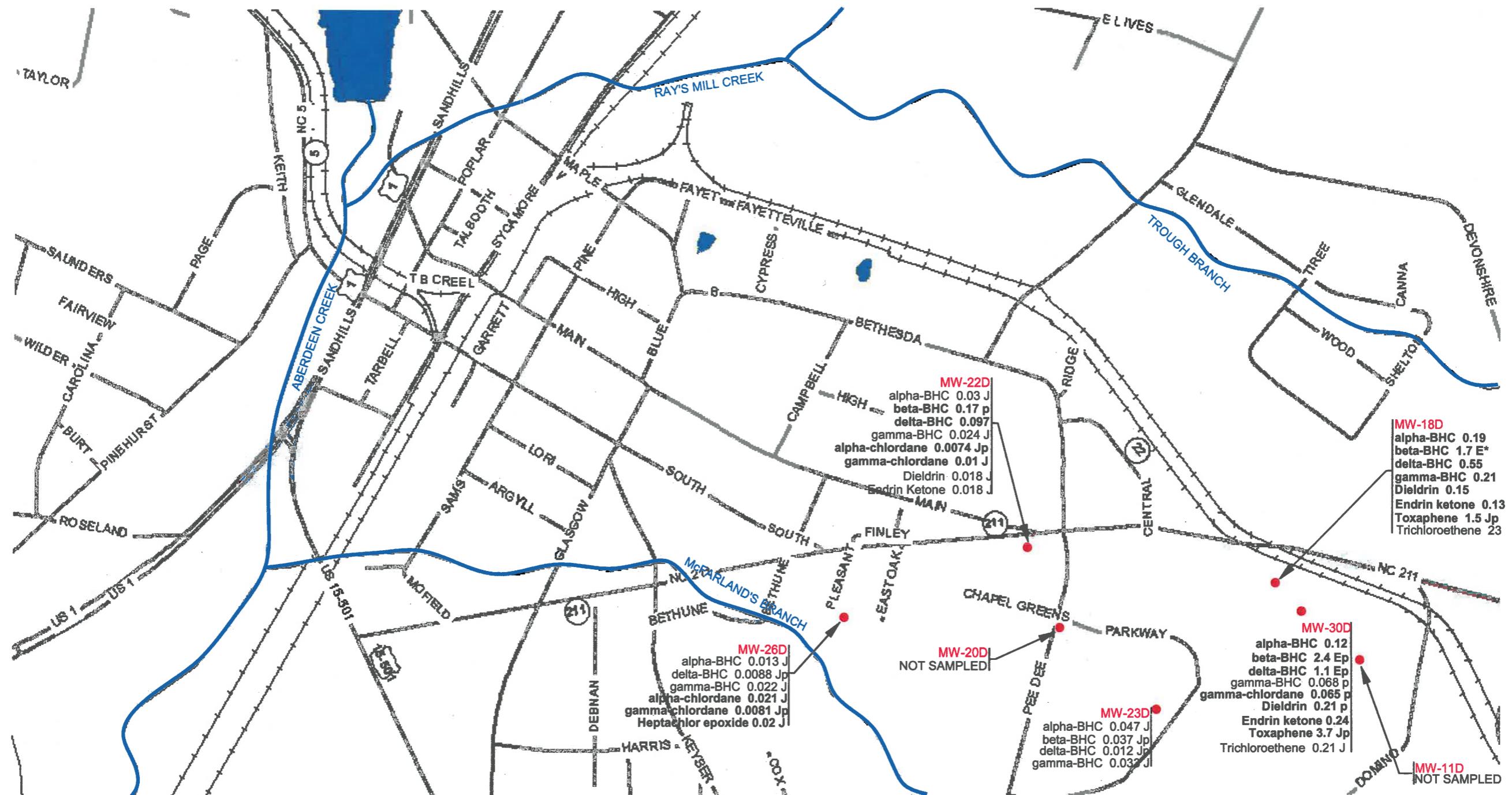
DATE: 11-13-2009

Environmental Services

PROJECT NO: 124792

三

DRAWN BY: GGL



**MW-26D** ●  
alpha-BHC 0.013 J  
delta-BHC 0.0088 Jp  
gamma-BHC 0.022 J  
alpha-chlordane 0.021 J  
gamma-chlordane 0.0081 Jp  
Heptachlor epoxide 0.02 J

STREAM

ESTIMATED CONCENTRATION

SURROGATE OR MATRIX SPIKE RECOVERIES WERE NOT OBTAINED BECAUSE THE EXTRACT WAS DILUTED FOR ANALYSIS; ALSO COMPOUNDS ANALYZED AT A DILUTION MAYBE FLAGGED WITH A D.

THE %RPD BETWEEN THE PRIMARY AND CONFIRMATION COLUMN/DETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED.

RESULTS EXCEEDS CALIBRATION RANGE

LCS AND LCSD EXCEEDS THE CONTROL LIMITS

NOTES:

MONITORING WELLS SAMPLED IN OCTOBER 2013.

LABORATORY RESULTS INCLUDE ONLY CONTAMINANTS REPORTED ABOVE THE METHOD DETECTION LIMITS.

BACKGROUND MAP FROM MOORE COUNTY GIS.

**Envirotrac**  
Environmental Services

**FIGURE 2**  
UPPER BLACK CREEK AQUIFER MONITORING RESULTS

Geigy Chemical Corporation  
Aberdeen, North Carolina

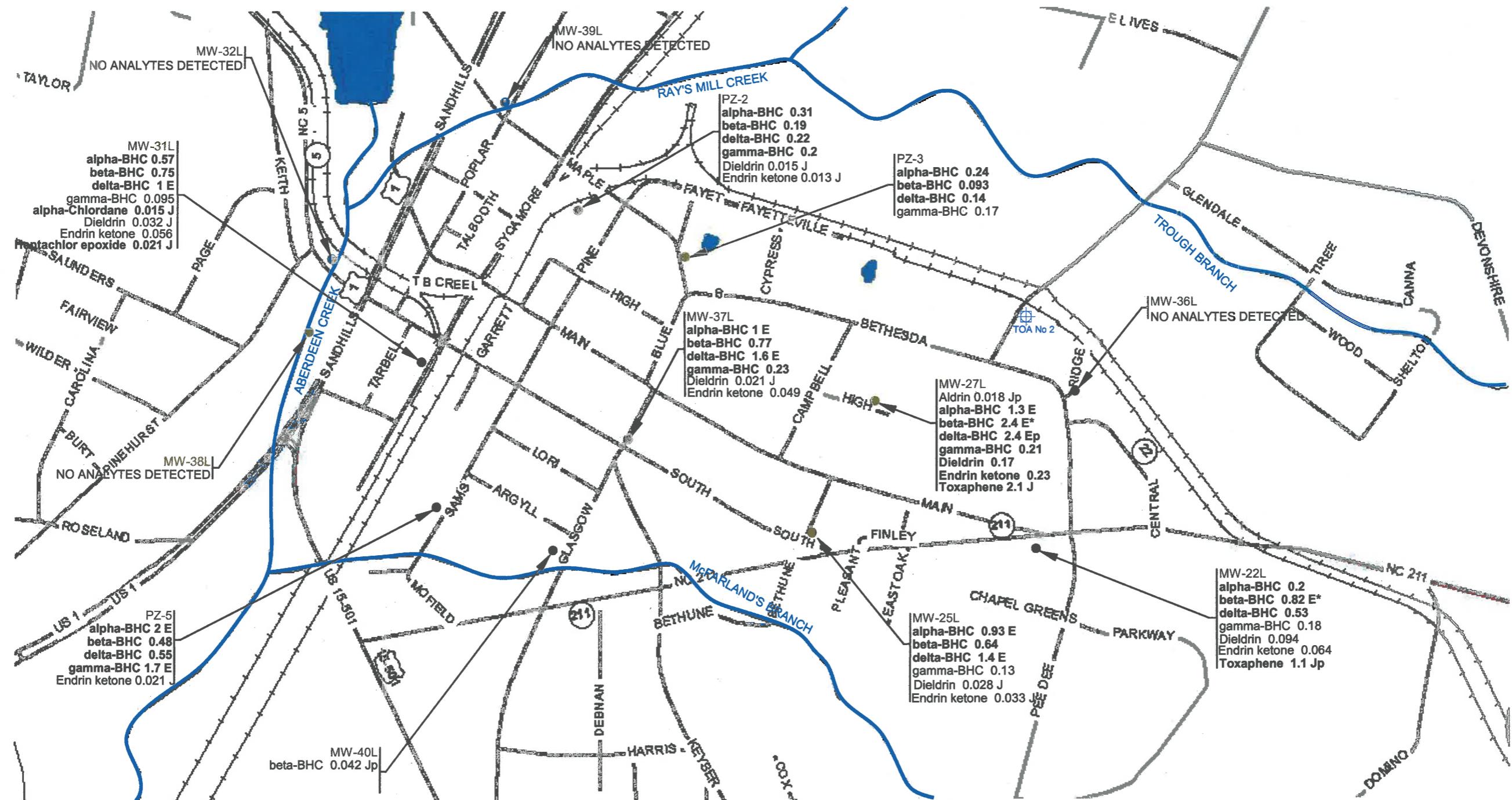
DATE: 11-06-2013

DRAWN BY: WF

APPROVED BY:  
*[Signature]*

SCALE: 1" = 200'

PROJECT NO: 131237



LEGEND

MW-25L ● alpha-BHC 0.93 E  
beta-BHC 0.64  
delta-BHC 1.4 E  
gamma-BHC 0.13  
Dieldrin 0.028 J  
Endrin ketone 0.033 J

MONITORING WELL LOCATION  
LABORATORY RESULTS (ug/L)  
[BOLD EXCEEDS PERFORMANCE STANDARD]

NOTES:  
MONITORING WELLS SAMPLED IN OCTOBER 2013.  
LABORATORY RESULTS INCLUDE ONLY CONTAMINANTS REPORTED  
ABOVE THE METHOD DETECTION LIMITS.

BACKGROUND MAP FROM MOORE COUNTY GIS.

STREAM  
ESTIMATED CONCENTRATION

SURROGATE OR MATRIX SPIKE RECOVERIES WERE NOT OBTAINED BECAUSE THE EXTRACT WAS DILUTED FOR ANALYSIS;  
ALSO COMPOUNDS ANALYZED AT A DILUTION MAYBE FLAGGED WITH A D.  
THE %RPD BETWEEN THE PRIMATRY AND CONFIRMATION COLUMN/DTETECTOR IS >40%. THE LOWER VALUE HAS BEEN REPORTED.

TOWN OF ABERDEEN SUPPLY WATER WELL.

LCS AND LCSD EXCEEDS THE CONTROL LIMIT  
RESULTS EXCEED CALIBRATION RANGE

0 250 500 750 1,000  
SCALE IN FEET

FIGURE 3  
LOWER BLACK CREEK AQUIFER MONITORING RESULTS

Geigy Chemical Corporation  
Aberdeen, North Carolina

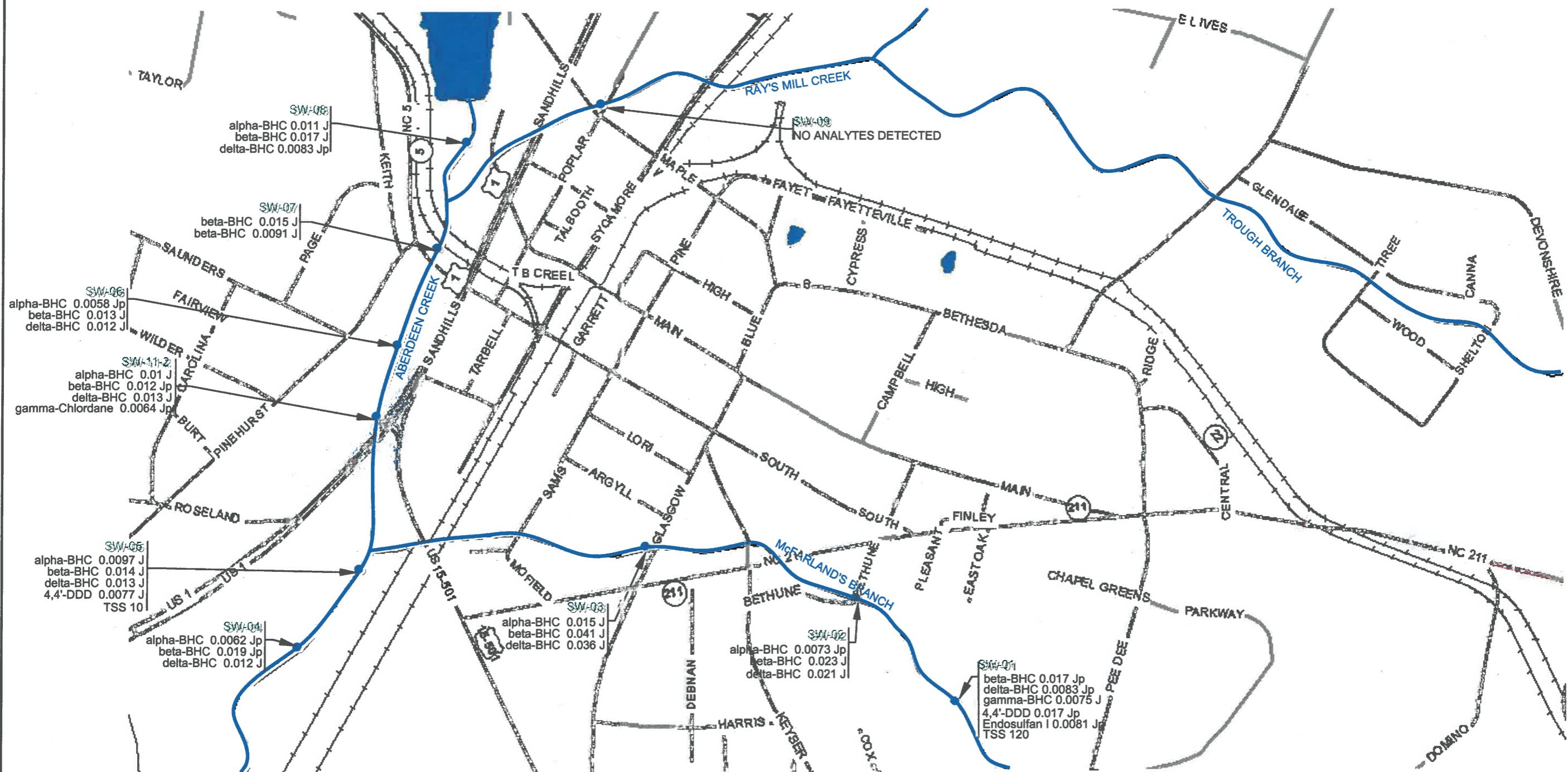
DATE: 11-06-2013

DRAWN BY: WF

APPROVED BY:  
*Curt*

SCALE: 1" = 200'

PROJECT NO: 131237



#### NOTES

MONITORING WELLS SAMPLED IN OCTOBER 20

LABORATORY RESULTS INCLUDE ONLY CONTAMINANTS REPORTED  
ABOVE THE METHOD DETECTION LIMITS.

BACKGROUND MAP FROM MOORE COUNTY GIS

LEGEND

delta-BTC 0.0123

**ESTIMATED CONCENTRATION**

#### THE XRD BETWEEN THE IRM CONFIRMATION COLUMN/DETEC

\* LOS SP. LOSS EXCEEDS THE COM

#### TSS TOTAL SUSPENDED SOLIDS REPORT

The logo for Envirotrace Environmental Services. It features a blue horizontal bar with the word "Envirotrace" in white, bold, sans-serif letters. A green circle is positioned above the letter "i". Below the bar, the words "Environmental Services" are written in a smaller, white, sans-serif font.

#### **FIGURE 4**

#### **SURFACE WATER MONITORING RESULTS**

**Geigy Chemical Corporation**  
**Aberdeen, North Carolina**

DATE: 11.06.2013

APPROVED BY:  


SCALE: 1" = 200'

— 1 —

PROJECT NO: 131237

**ATTACHMENT 3**

**ANALYTICAL LABORATORY REPORTS  
OCTOBER 2013 MONITORING EVENT**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-86253-1

Client Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

For:

Kleinfelder Inc

313 Gallimore Dairy Road

Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay



Authorized for release by:

1/16/2013 2:00:38 PM

Lidya Gulizia

Project Manager II

[lidya.gulizia@testamericainc.com](mailto:lidya.gulizia@testamericainc.com)

### LINKS

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results through

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Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## Case Narrative

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

**Job ID: 680-86253-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Kleinfelder Inc**

**Project: Geigy Chemical Corp. - 1Q13 / JAN 2013**

**Report Number: 680-86253-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 01/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.6 C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples Influent (680-86253-1), Effluent (680-86253-2), Carbon A 3 (680-86253-3) and Carbon B 1 (680-86253-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/07/2013.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

#### **PESTICIDES AND PCBs**

Samples Influent (680-86253-1), Effluent (680-86253-2), Carbon A 3 (680-86253-3) and Carbon B 1 (680-86253-4) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B\_8082A. The samples were prepared on 01/07/2013 and analyzed on 01/10/2013 and 01/11/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: Effluent (680-86253-2). These results have been reported and qualified.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 261954 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Sample Influent (680-86253-1)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides and PCBs analyses.

All other quality control parameters were within the acceptance limits.

## Sample Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-86253-1	Influent	Water	01/03/13 15:00	01/04/13 09:46
680-86253-2	Effluent	Water	01/03/13 15:06	01/04/13 09:46
680-86253-3	Carbon A 3	Water	01/03/13 15:13	01/04/13 09:46
680-86253-4	Carbon B 1	Water	01/03/13 15:17	01/04/13 09:46

1

2

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12

TestAmerica Savannah

## Method Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Definitions/Glossary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
E	Result exceeded calibration range.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
X	Surrogate is outside control limits

### Glossary

#### Abbreviation

These commonly used abbreviations may or may not be present in this report.

✉	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

## Client Sample ID: Influent

## Lab Sample ID: 680-86253-1

Matrix: Water

Date Collected: 01/03/13 15:00

Date Received: 01/04/13 09:46

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	7.8		1.0	0.13	ug/L			01/07/13 20:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	99			70 - 130				01/07/13 20:29	1
4-Bromofluorobenzene	97			70 - 130				01/07/13 20:29	1
Dibromofluoromethane	100			70 - 130				01/07/13 20:29	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aldrin	0.050	U	0.050	0.0069	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>alpha-BHC</b>	<b>0.032</b>	<b>J</b>	0.050	0.0056	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>beta-BHC</b>	<b>1.1</b>	<b>E</b>	0.050	0.0066	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>delta-BHC</b>	<b>0.34</b>		0.050	0.0048	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>gamma-BHC (Lindane)</b>	<b>0.022</b>	<b>J p</b>	0.050	0.0058	ug/L		01/07/13 14:31	01/10/13 23:54	1	
alpha-Chlordane	0.050	U	0.050	0.0059	ug/L		01/07/13 14:31	01/10/13 23:54	1	
gamma-Chlordane	0.050	U	0.050	0.0050	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>Dieldrin</b>	<b>0.21</b>		0.050	0.0090	ug/L		01/07/13 14:31	01/10/13 23:54	1	
4,4'-DDD	0.050	U	0.050	0.0064	ug/L		01/07/13 14:31	01/10/13 23:54	1	
4,4'-DDE	0.050	U	0.050	0.0076	ug/L		01/07/13 14:31	01/10/13 23:54	1	
4,4'-DDT	0.050	U	0.050	0.0096	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Endosulfan I	0.050	U	0.050	0.0042	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Endosulfan II	0.050	U	0.050	0.0097	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Endosulfan sulfate	0.050	U	0.050	0.0067	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Endrin	0.050	U	0.050	0.0096	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>Endrin ketone</b>	<b>0.13</b>		0.050	0.0083	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Heptachlor	0.050	U	0.050	0.0069	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>Heptachlor epoxide</b>	<b>0.027</b>	<b>J p</b>	0.050	0.0059	ug/L		01/07/13 14:31	01/10/13 23:54	1	
Methoxychlor	0.050	U	0.050	0.013	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>Toxaphene</b>	<b>1.7</b>	<b>J p</b>	5.0	0.50	ug/L		01/07/13 14:31	01/10/13 23:54	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
DCB Decachlorobiphenyl	71			22 - 130				01/07/13 14:31	01/10/13 23:54	1
DCB Decachlorobiphenyl	84			22 - 130				01/07/13 14:31	01/10/13 23:54	1
Tetrachloro-m-xylene	57			53 - 130				01/07/13 14:31	01/10/13 23:54	1
Tetrachloro-m-xylene	59			53 - 130				01/07/13 14:31	01/10/13 23:54	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.20	U	0.20	0.028	ug/L		01/07/13 14:31	01/11/13 00:17	4
<b>alpha-BHC</b>	<b>0.031</b>	<b>J D</b>	0.20	0.023	ug/L		01/07/13 14:31	01/11/13 00:17	4
<b>beta-BHC</b>	<b>1.0</b>	<b>D</b>	0.20	0.027	ug/L		01/07/13 14:31	01/11/13 00:17	4
<b>delta-BHC</b>	<b>0.27</b>	<b>D</b>	0.20	0.019	ug/L		01/07/13 14:31	01/11/13 00:17	4
<b>gamma-BHC (Lindane)</b>	<b>0.025</b>	<b>J D</b>	0.20	0.023	ug/L		01/07/13 14:31	01/11/13 00:17	4
alpha-Chlordane	0.20	U	0.20	0.024	ug/L		01/07/13 14:31	01/11/13 00:17	4
gamma-Chlordane	0.20	U	0.20	0.020	ug/L		01/07/13 14:31	01/11/13 00:17	4
<b>Dieldrin</b>	<b>0.17</b>	<b>J D</b>	0.20	0.036	ug/L		01/07/13 14:31	01/11/13 00:17	4
4,4'-DDD	0.20	U	0.20	0.026	ug/L		01/07/13 14:31	01/11/13 00:17	4
4,4'-DDE	0.20	U	0.20	0.030	ug/L		01/07/13 14:31	01/11/13 00:17	4
4,4'-DDT	0.20	U	0.20	0.038	ug/L		01/07/13 14:31	01/11/13 00:17	4

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-86253-1

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

## Client Sample ID: Influent

**Lab Sample ID: 680-86253-1**

Date Collected: 01/03/13 15:00

Matrix: Water

Date Received: 01/04/13 09:46

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.20	U	0.20	0.017	ug/L		01/07/13 14:31	01/11/13 00:17	4
Endosulfan II	0.20	U	0.20	0.039	ug/L		01/07/13 14:31	01/11/13 00:17	4
Endosulfan sulfate	0.20	U	0.20	0.027	ug/L		01/07/13 14:31	01/11/13 00:17	4
Endrin	0.20	U	0.20	0.038	ug/L		01/07/13 14:31	01/11/13 00:17	4
Endrin aldehyde	0.20	U	0.20	0.063	ug/L		01/07/13 14:31	01/11/13 00:17	4
<b>Endrin ketone</b>	<b>0.12</b>	<b>J D</b>	0.20	0.033	ug/L		01/07/13 14:31	01/11/13 00:17	4
Heptachlor	0.20	U	0.20	0.028	ug/L		01/07/13 14:31	01/11/13 00:17	4
Heptachlor epoxide	0.20	U	0.20	0.024	ug/L		01/07/13 14:31	01/11/13 00:17	4
Methoxychlor	0.20	U	0.20	0.051	ug/L		01/07/13 14:31	01/11/13 00:17	4
Toxaphene	20	U	20	2.0	ug/L		01/07/13 14:31	01/11/13 00:17	4
<hr/>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	74		22 - 130				01/07/13 14:31	01/11/13 00:17	4
DCB Decachlorobiphenyl	82		22 - 130				01/07/13 14:31	01/11/13 00:17	4
Tetrachloro-m-xylene	53		53 - 130				01/07/13 14:31	01/11/13 00:17	4
Tetrachloro-m-xylene	55		53 - 130				01/07/13 14:31	01/11/13 00:17	4

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

## Client Sample ID: Effluent

Lab Sample ID: 680-86253-2

Matrix: Water

Date Collected: 01/03/13 15:06

Date Received: 01/04/13 09:46

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			01/07/13 20:59	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	99		70 - 130				Prepared	01/07/13 20:59	1
4-Bromofluorobenzene	96		70 - 130					01/07/13 20:59	1
Dibromofluoromethane	100		70 - 130					01/07/13 20:59	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		01/07/13 14:31	01/11/13 00:41	1
alpha-BHC	0.049	U	0.049	0.0056	ug/L		01/07/13 14:31	01/11/13 00:41	1
beta-BHC	0.049	U	0.049	0.0066	ug/L		01/07/13 14:31	01/11/13 00:41	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		01/07/13 14:31	01/11/13 00:41	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		01/07/13 14:31	01/11/13 00:41	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		01/07/13 14:31	01/11/13 00:41	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		01/07/13 14:31	01/11/13 00:41	1
Dieldrin	0.049	U	0.049	0.0089	ug/L		01/07/13 14:31	01/11/13 00:41	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		01/07/13 14:31	01/11/13 00:41	1
4,4'-DDE	0.049	U	0.049	0.0076	ug/L		01/07/13 14:31	01/11/13 00:41	1
4,4'-DDT	0.049	U	0.049	0.0095	ug/L		01/07/13 14:31	01/11/13 00:41	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		01/07/13 14:31	01/11/13 00:41	1
Endosulfan II	0.049	U	0.049	0.0096	ug/L		01/07/13 14:31	01/11/13 00:41	1
Endosulfan sulfate	0.049	U	0.049	0.0067	ug/L		01/07/13 14:31	01/11/13 00:41	1
Endrin	0.049	U	0.049	0.0095	ug/L		01/07/13 14:31	01/11/13 00:41	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		01/07/13 14:31	01/11/13 00:41	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		01/07/13 14:31	01/11/13 00:41	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		01/07/13 14:31	01/11/13 00:41	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		01/07/13 14:31	01/11/13 00:41	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		01/07/13 14:31	01/11/13 00:41	1
Toxaphene	4.9	U	4.9	0.49	ug/L		01/07/13 14:31	01/11/13 00:41	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	70		22 - 130				Prepared	01/11/13 00:41	1
DCB Decachlorobiphenyl	80		22 - 130					01/11/13 00:41	1
Tetrachloro-m-xylene	48	X	53 - 130					01/11/13 00:41	1
Tetrachloro-m-xylene	50	X	53 - 130					01/11/13 00:41	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

## Client Sample ID: Carbon A 3

## Lab Sample ID: 680-86253-3

Matrix: Water

Date Collected: 01/03/13 15:13

Date Received: 01/04/13 09:46

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			01/07/13 21:28	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	98		70 - 130				Prepared	01/07/13 21:28	1
4-Bromofluorobenzene	98		70 - 130					01/07/13 21:28	1
Dibromofluoromethane	98		70 - 130					01/07/13 21:28	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		01/07/13 14:31	01/11/13 01:04	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		01/07/13 14:31	01/11/13 01:04	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		01/07/13 14:31	01/11/13 01:04	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		01/07/13 14:31	01/11/13 01:04	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		01/07/13 14:31	01/11/13 01:04	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		01/07/13 14:31	01/11/13 01:04	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		01/07/13 14:31	01/11/13 01:04	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		01/07/13 14:31	01/11/13 01:04	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		01/07/13 14:31	01/11/13 01:04	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		01/07/13 14:31	01/11/13 01:04	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		01/07/13 14:31	01/11/13 01:04	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		01/07/13 14:31	01/11/13 01:04	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		01/07/13 14:31	01/11/13 01:04	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		01/07/13 14:31	01/11/13 01:04	1
Endrin	0.050	U	0.050	0.0097	ug/L		01/07/13 14:31	01/11/13 01:04	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		01/07/13 14:31	01/11/13 01:04	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		01/07/13 14:31	01/11/13 01:04	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		01/07/13 14:31	01/11/13 01:04	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		01/07/13 14:31	01/11/13 01:04	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		01/07/13 14:31	01/11/13 01:04	1
Toxaphene	5.0	U	5.0	0.50	ug/L		01/07/13 14:31	01/11/13 01:04	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	75		22 - 130				Prepared	01/11/13 01:04	1
DCB Decachlorobiphenyl	82		22 - 130					01/11/13 01:04	1
Tetrachloro-m-xylene	73		53 - 130					01/11/13 01:04	1
Tetrachloro-m-xylene	73		53 - 130					01/11/13 01:04	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

## Client Sample ID: Carbon B 1

## Lab Sample ID: 680-86253-4

Matrix: Water

Date Collected: 01/03/13 15:17

Date Received: 01/04/13 09:46

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			01/07/13 21:57	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	98		70 - 130				Prepared	01/07/13 21:57	1
4-Bromofluorobenzene	95		70 - 130					01/07/13 21:57	1
Dibromofluoromethane	99		70 - 130					01/07/13 21:57	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		01/07/13 14:31	01/11/13 01:28	1
alpha-BHC	0.049	U	0.049	0.0056	ug/L		01/07/13 14:31	01/11/13 01:28	1
beta-BHC	0.049	U	0.049	0.0065	ug/L		01/07/13 14:31	01/11/13 01:28	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		01/07/13 14:31	01/11/13 01:28	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		01/07/13 14:31	01/11/13 01:28	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		01/07/13 14:31	01/11/13 01:28	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		01/07/13 14:31	01/11/13 01:28	1
Dieldrin	0.049	U	0.049	0.0089	ug/L		01/07/13 14:31	01/11/13 01:28	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		01/07/13 14:31	01/11/13 01:28	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		01/07/13 14:31	01/11/13 01:28	1
4,4'-DDT	0.049	U	0.049	0.0095	ug/L		01/07/13 14:31	01/11/13 01:28	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		01/07/13 14:31	01/11/13 01:28	1
Endosulfan II	0.049	U	0.049	0.0096	ug/L		01/07/13 14:31	01/11/13 01:28	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		01/07/13 14:31	01/11/13 01:28	1
Endrin	0.049	U	0.049	0.0095	ug/L		01/07/13 14:31	01/11/13 01:28	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		01/07/13 14:31	01/11/13 01:28	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		01/07/13 14:31	01/11/13 01:28	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		01/07/13 14:31	01/11/13 01:28	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		01/07/13 14:31	01/11/13 01:28	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		01/07/13 14:31	01/11/13 01:28	1
Toxaphene	4.9	U	4.9	0.49	ug/L		01/07/13 14:31	01/11/13 01:28	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	68		22 - 130				Prepared	01/11/13 01:28	1
DCB Decachlorobiphenyl	78		22 - 130					01/11/13 01:28	1
Tetrachloro-m-xylene	62		53 - 130					01/11/13 01:28	1
Tetrachloro-m-xylene	57		53 - 130					01/11/13 01:28	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-86253-1

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID:** MB 680-262068/6

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 262068

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	1.0	U	1.0	0.13	ug/L			01/07/13 17:33	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	99		70 - 130				Prepared	01/07/13 17:33	1
4-Bromofluorobenzene	99		70 - 130					01/07/13 17:33	1
Dibromofluoromethane	100		70 - 130					01/07/13 17:33	1

**Lab Sample ID:** LCS 680-262068/3

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 262068

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
	Added							
Trichloroethene		50.0	43.7		ug/L		87	80 - 120
<b>Surrogate</b>								
Toluene-d8 (Surr)	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene	89		70 - 130					
Dibromofluoromethane	85		70 - 130					
	93		70 - 130					

**Lab Sample ID:** LCSD 680-262068/4

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 262068

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added									
Trichloroethene		50.0	57.5		ug/L		115	80 - 120	27	30
<b>Surrogate</b>										
Toluene-d8 (Surr)	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene	115		70 - 130							
Dibromofluoromethane	106		70 - 130							
	118		70 - 130							

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

**Lab Sample ID:** MB 680-261954/7-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 262476

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	0.050	U	0.050	0.0070	ug/L		01/07/13 14:31	01/10/13 22:44	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		01/07/13 14:31	01/10/13 22:44	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		01/07/13 14:31	01/10/13 22:44	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		01/07/13 14:31	01/10/13 22:44	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		01/07/13 14:31	01/10/13 22:44	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		01/07/13 14:31	01/10/13 22:44	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		01/07/13 14:31	01/10/13 22:44	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		01/07/13 14:31	01/10/13 22:44	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-261954/7-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 262476

Prep Batch: 261954

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		01/07/13 14:31	01/10/13 22:44	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		01/07/13 14:31	01/10/13 22:44	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		01/07/13 14:31	01/10/13 22:44	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		01/07/13 14:31	01/10/13 22:44	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		01/07/13 14:31	01/10/13 22:44	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		01/07/13 14:31	01/10/13 22:44	1
Endrin	0.050	U	0.050	0.0097	ug/L		01/07/13 14:31	01/10/13 22:44	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		01/07/13 14:31	01/10/13 22:44	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		01/07/13 14:31	01/10/13 22:44	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		01/07/13 14:31	01/10/13 22:44	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		01/07/13 14:31	01/10/13 22:44	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		01/07/13 14:31	01/10/13 22:44	1
Toxaphene	5.0	U	5.0	0.50	ug/L		01/07/13 14:31	01/10/13 22:44	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	69		22 - 130	01/07/13 14:31	01/10/13 22:44	1			
DCB Decachlorobiphenyl	78		22 - 130	01/07/13 14:31	01/10/13 22:44	1			
Tetrachloro-m-xylene	78		53 - 130	01/07/13 14:31	01/10/13 22:44	1			
Tetrachloro-m-xylene	81		53 - 130	01/07/13 14:31	01/10/13 22:44	1			

Lab Sample ID: LCS 680-261954/11-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 262476

Prep Batch: 261954

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Toxaphene	10.0	7.61		ug/L		76	35 - 138
<b>LCS LCS</b>							
<b>Surrogate</b>							
<b>%Recovery Qualifier Limits</b>							
DCB Decachlorobiphenyl	66		22 - 130				
DCB Decachlorobiphenyl	72		22 - 130				
Tetrachloro-m-xylene	83		53 - 130				
Tetrachloro-m-xylene	82		53 - 130				

Lab Sample ID: LCS 680-261954/8-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 262476

Prep Batch: 261954

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Aldrin	0.100	0.0913		ug/L		91	14 - 168
alpha-BHC	0.100	0.0909		ug/L		91	43 - 138
beta-BHC	0.100	0.124		ug/L		123	38 - 158
delta-BHC	0.100	0.102		ug/L		102	23 - 191
gamma-BHC (Lindane)	0.100	0.0959		ug/L		96	54 - 134
alpha-Chlordane	0.100	0.103		ug/L		103	60 - 130
gamma-Chlordane	0.100	0.102		ug/L		102	50 - 145
Dieldrin	0.100	0.105		ug/L		105	61 - 136

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-86253-1

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: LCS 680-261954/8-A**

**Matrix: Water**

**Analysis Batch: 262476**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 261954**

Analyte	Spike	LCS			Unit	D	%Rec	Limits
	Added	Result	Qualifier					
4,4'-DDD	0.100	0.116			ug/L		116	49 - 144
4,4'-DDE	0.100	0.101			ug/L		101	46 - 144
4,4'-DDT	0.100	0.0875			ug/L		87	48 - 166
Endosulfan I	0.100	0.101			ug/L		101	52 - 141
Endosulfan II	0.100	0.108			ug/L		108	60 - 140
Endosulfan sulfate	0.100	0.108			ug/L		108	60 - 151
Endrin	0.100	0.116			ug/L		116	66 - 150
Endrin aldehyde	0.100	0.115			ug/L		115	16 - 200
Endrin ketone	0.100	0.110			ug/L		110	55 - 156
Heptachlor	0.100	0.101			ug/L		100	10 - 200
Heptachlor epoxide	0.100	0.0998			ug/L		100	49 - 142
Methoxychlor	0.100	0.0895			ug/L		89	13 - 186
Surrogate	LCS	LCS	Limits	Qualifer	Recovery	Sample	Sample	Spike
DCB Decachlorobiphenyl	68		22 - 130					
DCB Decachlorobiphenyl	73		22 - 130					
Tetrachloro-m-xylene	76		53 - 130					
Tetrachloro-m-xylene	75		53 - 130					

**Lab Sample ID: 680-86253-1 MS**

**Matrix: Water**

**Analysis Batch: 262476**

**Client Sample ID: Influent**

**Prep Type: Total/NA**

**Prep Batch: 261954**

Analyte	Sample	Sample	Spike	MS			Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Aldrin	0.050	U	0.0997	0.151			ug/L		151	14 - 168
alpha-BHC	0.032	J	0.0997	0.142			ug/L		111	43 - 138
beta-BHC	1.1	E	0.0997	1.58	E 4		ug/L		446	38 - 158
delta-BHC	0.34		0.0997	0.499			ug/L		156	23 - 191
gamma-BHC (Lindane)	0.049	J p	0.0997	0.181	F		ug/L		160	54 - 134
alpha-Chlordane	0.050	U	0.0997	0.221	F		ug/L		221	60 - 130
gamma-Chlordane	0.050	U	0.0997	0.150	F		ug/L		150	50 - 145
Dieldrin	0.21		0.0997	0.355	F		ug/L		147	61 - 136
4,4'-DDD	0.050	U	0.0997	0.169	F		ug/L		169	49 - 144
4,4'-DDE	0.050	U	0.0997	0.198	F		ug/L		198	46 - 144
4,4'-DDT	0.050	U	0.0997	0.121	p		ug/L		122	48 - 166
Endosulfan I	0.050	U	0.0997	0.143	F		ug/L		143	52 - 141
Endosulfan II	0.050	U	0.0997	0.244	F		ug/L		244	60 - 140
Endosulfan sulfate	0.050	U	0.0997	0.147			ug/L		148	60 - 151
Endrin	0.050	U	0.0997	0.255	F		ug/L		256	66 - 150
Endrin aldehyde	0.050	U	0.0997	0.265	F		ug/L		265	16 - 200
Endrin ketone	0.13		0.0997	0.259			ug/L		124	55 - 156
Heptachlor	0.050	U	0.0997	0.140			ug/L		140	10 - 200
Heptachlor epoxide	0.062	J p	0.0997	0.185	F		ug/L		159	49 - 142
Methoxychlor	0.050	U	0.0997	0.126	p		ug/L		127	13 - 186

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-86253-1

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: 680-86253-1 MS**

**Matrix: Water**

**Analysis Batch: 262476**

**Client Sample ID: Influent**

**Prep Type: Total/NA**

**Prep Batch: 261954**

Surrogate	MS	MS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	81				22 - 130
DCB Decachlorobiphenyl	95				22 - 130
Tetrachloro-m-xylene	80				53 - 130
Tetrachloro-m-xylene	82				53 - 130

**Lab Sample ID: 680-86253-1 MSD**

**Matrix: Water**

**Analysis Batch: 262476**

**Client Sample ID: Influent**

**Prep Type: Total/NA**

**Prep Batch: 261954**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aldrin	0.050	U	0.0940	0.126		ug/L		134	14 - 168	18	50
alpha-BHC	0.032	J	0.0940	0.130		ug/L		105	43 - 138	9	50
beta-BHC	1.1	E	0.0940	1.40	E 4	ug/L		284	38 - 158	12	50
delta-BHC	0.32		0.0940	0.466		ug/L		130	23 - 191	7	50
gamma-BHC (Lindane)	0.049	J p	0.0940	0.158	F	ug/L		145	54 - 134	14	50
alpha-Chlordane	0.050	U	0.0940	0.200	F	ug/L		213	60 - 130	10	50
gamma-Chlordane	0.050	U	0.0940	0.124		ug/L		132	50 - 145	19	50
Dieldrin	0.21		0.0940	0.308		ug/L		106	61 - 136	14	50
4,4'-DDD	0.050	U	0.0940	0.154	F	ug/L		164	49 - 144	9	50
4,4'-DDE	0.050	U	0.0940	0.167	F	ug/L		177	46 - 144	17	50
4,4'-DDT	0.050	U	0.0940	0.108	p	ug/L		115	48 - 166	12	50
Endosulfan I	0.050	U	0.0940	0.126		ug/L		134	52 - 141	13	50
Endosulfan II	0.050	U	0.0940	0.222	F	ug/L		237	60 - 140	9	50
Endosulfan sulfate	0.050	U	0.0940	0.124		ug/L		132	60 - 151	17	50
Endrin	0.050	U	0.0940	0.227	F	ug/L		242	66 - 150	12	50
Endrin aldehyde	0.050	U	0.0940	0.227	F	ug/L		242	16 - 200	15	50
Endrin ketone	0.13		0.0940	0.235		ug/L		106	55 - 156	10	50
Heptachlor	0.050	U	0.0940	0.117		ug/L		125	10 - 200	17	50
Heptachlor epoxide	0.062	J p	0.0940	0.156		ug/L		138	49 - 142	17	50
Methoxychlor	0.050	U	0.0940	0.103	p	ug/L		109	13 - 186	21	50

Surrogate	MS	MS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	76				22 - 130
DCB Decachlorobiphenyl	78				22 - 130
Tetrachloro-m-xylene	76				53 - 130
Tetrachloro-m-xylene	72				53 - 130

**Lab Sample ID: 680-86253-2 MS**

**Matrix: Water**

**Analysis Batch: 262476**

**Client Sample ID: Effluent**

**Prep Type: Total/NA**

**Prep Batch: 261954**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Toxaphene	4.9	U	9.85	7.85		ug/L		80	35 - 138

Surrogate	MS	MS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	71				22 - 130

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-86253-1

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-86253-2 MS

Matrix: Water

Analysis Batch: 262476

Client Sample ID: Effluent

Prep Type: Total/NA

Prep Batch: 261954

Surrogate	MS	MS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	83				22 - 130
Tetrachloro-m-xylene	70				53 - 130
Tetrachloro-m-xylene	71				53 - 130

Lab Sample ID: 680-86253-2 MSD

Matrix: Water

Analysis Batch: 262476

Client Sample ID: Effluent

Prep Type: Total/NA

Prep Batch: 261954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit ug/L	D	%Rec.	RPD	Limit
Toxaphene	4.9	U	9.81	8.39			86	35 - 138	7	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	77		22 - 130
DCB Decachlorobiphenyl	89		22 - 130
Tetrachloro-m-xylene	75		53 - 130
Tetrachloro-m-xylene	79		53 - 130

# QC Association Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

## GC/MS VOA

### Analysis Batch: 262068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86253-1	Influent	Total/NA	Water	8260B	
680-86253-2	Effluent	Total/NA	Water	8260B	
680-86253-3	Carbon A 3	Total/NA	Water	8260B	
680-86253-4	Carbon B 1	Total/NA	Water	8260B	
LCS 680-262068/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-262068/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-262068/6	Method Blank	Total/NA	Water	8260B	

## GC Semi VOA

### Prep Batch: 261954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86253-1	Influent	Total/NA	Water	3520C	
680-86253-1 - DL	Influent	Total/NA	Water	3520C	
680-86253-1 MS	Influent	Total/NA	Water	3520C	
680-86253-1 MSD	Influent	Total/NA	Water	3520C	
680-86253-2	Effluent	Total/NA	Water	3520C	
680-86253-2 MS	Effluent	Total/NA	Water	3520C	
680-86253-2 MSD	Effluent	Total/NA	Water	3520C	
680-86253-3	Carbon A 3	Total/NA	Water	3520C	
680-86253-4	Carbon B 1	Total/NA	Water	3520C	
LCS 680-261954/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-261954/8-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-261954/7-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 262476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86253-1	Influent	Total/NA	Water	8081B/8082A	261954
680-86253-1 - DL	Influent	Total/NA	Water	8081B/8082A	261954
680-86253-1 MS	Influent	Total/NA	Water	8081B/8082A	261954
680-86253-1 MSD	Influent	Total/NA	Water	8081B/8082A	261954
680-86253-2	Effluent	Total/NA	Water	8081B/8082A	261954
680-86253-2 MS	Effluent	Total/NA	Water	8081B/8082A	261954
680-86253-2 MSD	Effluent	Total/NA	Water	8081B/8082A	261954
680-86253-3	Carbon A 3	Total/NA	Water	8081B/8082A	261954
680-86253-4	Carbon B 1	Total/NA	Water	8081B/8082A	261954
LCS 680-261954/11-A	Lab Control Sample	Total/NA	Water	8081B/8082A	261954
LCS 680-261954/8-A	Lab Control Sample	Total/NA	Water	8081B/8082A	261954
MB 680-261954/7-A	Method Blank	Total/NA	Water	8081B/8082A	261954

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

### Client Sample ID: Influent

Lab Sample ID: 680-86253-1

Matrix: Water

Date Collected: 01/03/13 15:00

Date Received: 01/04/13 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262068	01/07/13 20:29	AJMC	TAL SAV
Total/NA	Prep	3520C			261954	01/07/13 14:31	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	262476	01/10/13 23:54	JK	TAL SAV
Total/NA	Prep	3520C	DL		261954	01/07/13 14:31	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	262476	01/11/13 00:17	JK	TAL SAV

### Client Sample ID: Effluent

Lab Sample ID: 680-86253-2

Matrix: Water

Date Collected: 01/03/13 15:06

Date Received: 01/04/13 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262068	01/07/13 20:59	AJMC	TAL SAV
Total/NA	Prep	3520C			261954	01/07/13 14:31	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	262476	01/11/13 00:41	JK	TAL SAV

### Client Sample ID: Carbon A 3

Lab Sample ID: 680-86253-3

Matrix: Water

Date Collected: 01/03/13 15:13

Date Received: 01/04/13 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262068	01/07/13 21:28	AJMC	TAL SAV
Total/NA	Prep	3520C			261954	01/07/13 14:31	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	262476	01/11/13 01:04	JK	TAL SAV

### Client Sample ID: Carbon B 1

Lab Sample ID: 680-86253-4

Matrix: Water

Date Collected: 01/03/13 15:17

Date Received: 01/04/13 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262068	01/07/13 21:57	AJMC	TAL SAV
Total/NA	Prep	3520C			261954	01/07/13 14:31	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	262476	01/11/13 01:28	JK	TAL SAV

#### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

TestAmerica

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: [www.testamericainc.com](http://www.testamericainc.com)  
Phone: (912) 354-7858  
Fax: (912) 352-0165

THE LEADER IN ENVIRONMENTAL TESTING

## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-86253-1

**Login Number: 86253**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Barnett, Eddie T**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Certification Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 1Q13 / JAN 2013

TestAmerica Job ID: 680-86253-1

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-89479-1

Client Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

For:

Kleinfelder Inc

313 Gallimore Dairy Road

Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay



Authorized for release by:

5/7/2013 11:25:10 AM

Lidya Gulizia, Project Manager II

[lidya.gulizia@testamericainc.com](mailto:lidya.gulizia@testamericainc.com)

### LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## Case Narrative

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

**Job ID: 680-89479-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Kleinfelder Inc**

**Project: Geigy Chemical Corp. - 2Q13 / APR 2013**

**Report Number: 680-89479-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples Effluent (680-89479-1), Carbon B-1 (680-89479-2), Carbon A-3 (680-89479-3) and Influent (680-89479-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/25/2013.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

#### **PESTICIDES AND PCBs**

Samples Effluent (680-89479-1), Carbon B-1 (680-89479-2), Carbon A-3 (680-89479-3) and Influent (680-89479-4) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B\_8082A. The samples were prepared on 04/22/2013 and analyzed on 04/25/2013 and 05/03/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: (680-89466-1 MS), (680-89466-1 MSD), WP-01-041713 (680-89466-1). These results have been reported and qualified.

The %RPD between the primary and confirmation column exceeded 40% for b-BHC for the following sample(s): Effluent (680-89479-1). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation column exceeded 40% for Toxaphene for the following sample(s): Influent (680-89479-4). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Sample Influent (680-89479-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly and surrogate recoveries are not reported: Influent (680-89479-4)..

## Case Narrative

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

### **Job ID: 680-89479-1 (Continued)**

#### **Laboratory: TestAmerica Savannah (Continued)**

No difficulties were encountered during the Pesticides and PCBs analyses.

All quality control parameters were within the acceptance limits.

## Sample Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89479-1	Effluent	Water	04/17/13 10:42	04/18/13 09:52
680-89479-2	Carbon B-1	Water	04/17/13 10:50	04/18/13 09:52
680-89479-3	Carbon A-3	Water	04/17/13 10:57	04/18/13 09:52
680-89479-4	Influent	Water	04/17/13 11:04	04/18/13 09:52

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TestAmerica Savannah

## Method Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Definitions/Glossary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
E	Result exceeded calibration range.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

### Glossary

#### Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

## Client Sample ID: Effluent

Lab Sample ID: 680-89479-1

Matrix: Water

Date Collected: 04/17/13 10:42

Date Received: 04/18/13 09:52

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/25/13 13:13	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	104		70 - 130				Prepared	04/25/13 13:13	1
4-Bromofluorobenzene	101		70 - 130					04/25/13 13:13	1
Dibromofluoromethane	103		70 - 130					04/25/13 13:13	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L			04/25/13 05:01	1
alpha-BHC	0.049	U	0.049	0.0056	ug/L		04/22/13 15:40	04/25/13 05:01	1
<b>beta-BHC</b>	<b>0.022</b>	<b>J p</b>	0.049	0.0066	ug/L		04/22/13 15:40	04/25/13 05:01	1
<b>delta-BHC</b>	<b>0.0076</b>	<b>J</b>	0.049	0.0047	ug/L		04/22/13 15:40	04/25/13 05:01	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		04/22/13 15:40	04/25/13 05:01	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		04/22/13 15:40	04/25/13 05:01	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		04/22/13 15:40	04/25/13 05:01	1
Dieldrin	0.049	U	0.049	0.0090	ug/L		04/22/13 15:40	04/25/13 05:01	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		04/22/13 15:40	04/25/13 05:01	1
4,4'-DDE	0.049	U	0.049	0.0076	ug/L		04/22/13 15:40	04/25/13 05:01	1
4,4'-DDT	0.049	U	0.049	0.0096	ug/L		04/22/13 15:40	04/25/13 05:01	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		04/22/13 15:40	04/25/13 05:01	1
Endosulfan II	0.049	U	0.049	0.0097	ug/L		04/22/13 15:40	04/25/13 05:01	1
Endosulfan sulfate	0.049	U	0.049	0.0067	ug/L		04/22/13 15:40	04/25/13 05:01	1
Endrin	0.049	U	0.049	0.0096	ug/L		04/22/13 15:40	04/25/13 05:01	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		04/22/13 15:40	04/25/13 05:01	1
Endrin ketone	0.049	U	0.049	0.0083	ug/L		04/22/13 15:40	04/25/13 05:01	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		04/22/13 15:40	04/25/13 05:01	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		04/22/13 15:40	04/25/13 05:01	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		04/22/13 15:40	04/25/13 05:01	1
Toxaphene	4.9	U	4.9	0.49	ug/L		04/22/13 15:40	04/25/13 05:01	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	89		22 - 130				Prepared	04/25/13 05:01	1
DCB Decachlorobiphenyl	96		22 - 130					04/25/13 05:01	1
Tetrachloro-m-xylene	68		53 - 130					04/25/13 05:01	1
Tetrachloro-m-xylene	67		53 - 130					04/25/13 05:01	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

**Client Sample ID: Carbon B-1**

**Lab Sample ID: 680-89479-2**

**Matrix: Water**

Date Collected: 04/17/13 10:50

Date Received: 04/18/13 09:52

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/25/13 13:43	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	103		70 - 130				Prepared	04/25/13 13:43	1
4-Bromofluorobenzene	100		70 - 130					04/25/13 13:43	1
Dibromofluoromethane	103		70 - 130					04/25/13 13:43	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		04/22/13 15:40	04/25/13 05:24	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		04/22/13 15:40	04/25/13 05:24	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		04/22/13 15:40	04/25/13 05:24	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		04/22/13 15:40	04/25/13 05:24	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		04/22/13 15:40	04/25/13 05:24	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		04/22/13 15:40	04/25/13 05:24	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		04/22/13 15:40	04/25/13 05:24	1
Dieldrin	0.048	U	0.048	0.0088	ug/L		04/22/13 15:40	04/25/13 05:24	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		04/22/13 15:40	04/25/13 05:24	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		04/22/13 15:40	04/25/13 05:24	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		04/22/13 15:40	04/25/13 05:24	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		04/22/13 15:40	04/25/13 05:24	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		04/22/13 15:40	04/25/13 05:24	1
Endosulfan sulfate	0.048	U	0.048	0.0066	ug/L		04/22/13 15:40	04/25/13 05:24	1
Endrin	0.048	U	0.048	0.0093	ug/L		04/22/13 15:40	04/25/13 05:24	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		04/22/13 15:40	04/25/13 05:24	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L		04/22/13 15:40	04/25/13 05:24	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		04/22/13 15:40	04/25/13 05:24	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		04/22/13 15:40	04/25/13 05:24	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		04/22/13 15:40	04/25/13 05:24	1
Toxaphene	4.8	U	4.8	0.48	ug/L		04/22/13 15:40	04/25/13 05:24	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	73		22 - 130				Prepared	04/22/13 15:40	04/25/13 05:24
DCB Decachlorobiphenyl	77		22 - 130					04/22/13 15:40	04/25/13 05:24
Tetrachloro-m-xylene	64		53 - 130					04/22/13 15:40	04/25/13 05:24
Tetrachloro-m-xylene	63		53 - 130					04/22/13 15:40	04/25/13 05:24

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

**Client Sample ID: Carbon A-3**

**Lab Sample ID: 680-89479-3**

**Matrix: Water**

Date Collected: 04/17/13 10:57

Date Received: 04/18/13 09:52

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/25/13 14:12	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	102		70 - 130				Prepared	04/25/13 14:12	1
4-Bromofluorobenzene	102		70 - 130					04/25/13 14:12	1
Dibromofluoromethane	102		70 - 130					04/25/13 14:12	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0072	ug/L		04/22/13 15:40	04/25/13 05:46	1
alpha-BHC	0.051	U	0.051	0.0058	ug/L		04/22/13 15:40	04/25/13 05:46	1
beta-BHC	0.051	U	0.051	0.0069	ug/L		04/22/13 15:40	04/25/13 05:46	1
delta-BHC	0.051	U	0.051	0.0049	ug/L		04/22/13 15:40	04/25/13 05:46	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0060	ug/L		04/22/13 15:40	04/25/13 05:46	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		04/22/13 15:40	04/25/13 05:46	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		04/22/13 15:40	04/25/13 05:46	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		04/22/13 15:40	04/25/13 05:46	1
4,4'-DDD	0.051	U	0.051	0.0067	ug/L		04/22/13 15:40	04/25/13 05:46	1
4,4'-DDE	0.051	U	0.051	0.0079	ug/L		04/22/13 15:40	04/25/13 05:46	1
4,4'-DDT	0.051	U	0.051	0.0099	ug/L		04/22/13 15:40	04/25/13 05:46	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		04/22/13 15:40	04/25/13 05:46	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		04/22/13 15:40	04/25/13 05:46	1
Endosulfan sulfate	0.051	U	0.051	0.0070	ug/L		04/22/13 15:40	04/25/13 05:46	1
Endrin	0.051	U	0.051	0.0099	ug/L		04/22/13 15:40	04/25/13 05:46	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		04/22/13 15:40	04/25/13 05:46	1
Endrin ketone	0.051	U	0.051	0.0086	ug/L		04/22/13 15:40	04/25/13 05:46	1
Heptachlor	0.051	U	0.051	0.0072	ug/L		04/22/13 15:40	04/25/13 05:46	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		04/22/13 15:40	04/25/13 05:46	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		04/22/13 15:40	04/25/13 05:46	1
Toxaphene	5.1	U	5.1	0.51	ug/L		04/22/13 15:40	04/25/13 05:46	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	87		22 - 130				Prepared	04/22/13 15:40	04/25/13 05:46
DCB Decachlorobiphenyl	93		22 - 130					04/22/13 15:40	04/25/13 05:46
Tetrachloro-m-xylene	62		53 - 130					04/22/13 15:40	04/25/13 05:46
Tetrachloro-m-xylene	64		53 - 130					04/22/13 15:40	04/25/13 05:46

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

## Client Sample ID: Influent

## Lab Sample ID: 680-89479-4

Matrix: Water

Date Collected: 04/17/13 11:04

Date Received: 04/18/13 09:52

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	6.2		1.0	0.13	ug/L			04/25/13 14:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	103			70 - 130				04/25/13 14:42	1
4-Bromofluorobenzene	101			70 - 130				04/25/13 14:42	1
Dibromofluoromethane	101			70 - 130				04/25/13 14:42	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Aldrin	0.052	U	0.052	0.0072	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>alpha-BHC</b>	<b>0.038</b>	<b>J</b>	0.052	0.0059	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>beta-BHC</b>	<b>1.6</b>	<b>E</b>	0.052	0.0069	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>delta-BHC</b>	<b>0.39</b>		0.052	0.0049	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>gamma-BHC (Lindane)</b>	<b>0.029</b>	<b>J p</b>	0.052	0.0061	ug/L		04/22/13 15:40	04/25/13 06:09	1	
alpha-Chlordane	0.052	U	0.052	0.0062	ug/L		04/22/13 15:40	04/25/13 06:09	1	
gamma-Chlordane	0.052	U	0.052	0.0053	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>Dieldrin</b>	<b>0.30</b>		0.052	0.0094	ug/L		04/22/13 15:40	04/25/13 06:09	1	
4,4'-DDD	0.052	U	0.052	0.0067	ug/L		04/22/13 15:40	04/25/13 06:09	1	
4,4'-DDE	0.052	U	0.052	0.0079	ug/L		04/22/13 15:40	04/25/13 06:09	1	
4,4'-DDT	0.052	U	0.052	0.010	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Endosulfan I	0.052	U	0.052	0.0043	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Endosulfan II	0.052	U	0.052	0.010	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Endosulfan sulfate	0.052	U	0.052	0.0070	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Endrin	0.052	U	0.052	0.010	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Endrin aldehyde	0.052	U	0.052	0.016	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>Endrin ketone</b>	<b>0.22</b>		0.052	0.0087	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Heptachlor	0.052	U	0.052	0.0072	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Heptachlor epoxide	0.052	U	0.052	0.0062	ug/L		04/22/13 15:40	04/25/13 06:09	1	
Methoxychlor	0.052	U	0.052	0.013	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>Toxaphene</b>	<b>4.1</b>	<b>J p</b>	5.2	0.52	ug/L		04/22/13 15:40	04/25/13 06:09	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
DCB Decachlorobiphenyl	90			22 - 130				04/22/13 15:40	04/25/13 06:09	1
DCB Decachlorobiphenyl	102			22 - 130				04/22/13 15:40	04/25/13 06:09	1
Tetrachloro-m-xylene	53			53 - 130				04/22/13 15:40	04/25/13 06:09	1
Tetrachloro-m-xylene	59			53 - 130				04/22/13 15:40	04/25/13 06:09	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.52	U	0.52	0.072	ug/L		04/22/13 15:40	05/03/13 15:27	10
<b>alpha-BHC</b>	<b>0.52</b>	<b>U</b>	0.52	0.059	ug/L		04/22/13 15:40	05/03/13 15:27	10
<b>beta-BHC</b>	<b>1.6</b>	<b>D</b>	0.52	0.069	ug/L		04/22/13 15:40	05/03/13 15:27	10
<b>delta-BHC</b>	<b>0.32</b>	<b>J D</b>	0.52	0.049	ug/L		04/22/13 15:40	05/03/13 15:27	10
gamma-BHC (Lindane)	0.52	U	0.52	0.061	ug/L		04/22/13 15:40	05/03/13 15:27	10
alpha-Chlordane	0.52	U	0.52	0.062	ug/L		04/22/13 15:40	05/03/13 15:27	10
gamma-Chlordane	0.52	U	0.52	0.053	ug/L		04/22/13 15:40	05/03/13 15:27	10
<b>Dieldrin</b>	<b>0.19</b>	<b>J D</b>	0.52	0.094	ug/L		04/22/13 15:40	05/03/13 15:27	10
4,4'-DDD	0.52	U	0.52	0.067	ug/L		04/22/13 15:40	05/03/13 15:27	10
4,4'-DDE	0.52	U	0.52	0.079	ug/L		04/22/13 15:40	05/03/13 15:27	10
4,4'-DDT	0.52	U	0.52	0.10	ug/L		04/22/13 15:40	05/03/13 15:27	10

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

**Client Sample ID: Influent**

**Lab Sample ID: 680-89479-4**

Date Collected: 04/17/13 11:04

Matrix: Water

Date Received: 04/18/13 09:52

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.52	U	0.52	0.043	ug/L		04/22/13 15:40	05/03/13 15:27	10
Endosulfan II	0.52	U	0.52	0.10	ug/L		04/22/13 15:40	05/03/13 15:27	10
Endosulfan sulfate	0.52	U	0.52	0.070	ug/L		04/22/13 15:40	05/03/13 15:27	10
Endrin	0.52	U	0.52	0.10	ug/L		04/22/13 15:40	05/03/13 15:27	10
Endrin aldehyde	0.52	U	0.52	0.16	ug/L		04/22/13 15:40	05/03/13 15:27	10
<b>Endrin ketone</b>	<b>0.12</b>	<b>J D</b>	0.52	0.087	ug/L		04/22/13 15:40	05/03/13 15:27	10
Heptachlor	0.52	U	0.52	0.072	ug/L		04/22/13 15:40	05/03/13 15:27	10
Heptachlor epoxide	0.52	U	0.52	0.062	ug/L		04/22/13 15:40	05/03/13 15:27	10
Methoxychlor	0.52	U	0.52	0.13	ug/L		04/22/13 15:40	05/03/13 15:27	10
Toxaphene	52	U	52	5.2	ug/L		04/22/13 15:40	05/03/13 15:27	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	0	D		22 - 130			04/22/13 15:40	05/03/13 15:27	10
DCB Decachlorobiphenyl	0	D		22 - 130			04/22/13 15:40	05/03/13 15:27	10
Tetrachloro-m-xylene	0	D		53 - 130			04/22/13 15:40	05/03/13 15:27	10
Tetrachloro-m-xylene	0	D		53 - 130			04/22/13 15:40	05/03/13 15:27	10

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-89479-1

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID:** MB 680-274400/7

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 274400

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	1.0	U	1.0	0.13	ug/L			04/25/13 12:14	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	102	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99			70 - 130				04/25/13 12:14	1
Dibromofluoromethane	105			70 - 130				04/25/13 12:14	1

**Lab Sample ID:** LCS 680-274400/4

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 274400

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
	Added							
Trichloroethene		50.0	52.1		ug/L		104	80 - 120
<b>Surrogate</b>								
Toluene-d8 (Surr)	102	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene	97			70 - 130				
Dibromofluoromethane	103			70 - 130				

**Lab Sample ID:** LCSD 680-274400/5

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 274400

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added									
Trichloroethene		50.0	52.7		ug/L		105	80 - 120	1	30
<b>Surrogate</b>										
Toluene-d8 (Surr)	102	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene	97			70 - 130						
Dibromofluoromethane	106			70 - 130						

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

**Lab Sample ID:** MB 680-273899/15-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 274920

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	0.050	U	0.050	0.0070	ug/L		04/22/13 15:40	04/24/13 21:26	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		04/22/13 15:40	04/24/13 21:26	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		04/22/13 15:40	04/24/13 21:26	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		04/22/13 15:40	04/24/13 21:26	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		04/22/13 15:40	04/24/13 21:26	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		04/22/13 15:40	04/24/13 21:26	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		04/22/13 15:40	04/24/13 21:26	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		04/22/13 15:40	04/24/13 21:26	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-89479-1

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-273899/15-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 274920

Prep Batch: 273899

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		04/22/13 15:40	04/24/13 21:26	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		04/22/13 15:40	04/24/13 21:26	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		04/22/13 15:40	04/24/13 21:26	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		04/22/13 15:40	04/24/13 21:26	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		04/22/13 15:40	04/24/13 21:26	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		04/22/13 15:40	04/24/13 21:26	1
Endrin	0.050	U	0.050	0.0097	ug/L		04/22/13 15:40	04/24/13 21:26	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		04/22/13 15:40	04/24/13 21:26	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		04/22/13 15:40	04/24/13 21:26	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		04/22/13 15:40	04/24/13 21:26	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		04/22/13 15:40	04/24/13 21:26	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		04/22/13 15:40	04/24/13 21:26	1
Toxaphene	5.0	U	5.0	0.50	ug/L		04/22/13 15:40	04/24/13 21:26	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	54		22 - 130	04/22/13 15:40	04/24/13 21:26	1			
DCB Decachlorobiphenyl	63		22 - 130	04/22/13 15:40	04/24/13 21:26	1			
Tetrachloro-m-xylene	76		53 - 130	04/22/13 15:40	04/24/13 21:26	1			
Tetrachloro-m-xylene	77		53 - 130	04/22/13 15:40	04/24/13 21:26	1			

Lab Sample ID: LCS 680-273899/16-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 274920

Prep Batch: 273899

Analyte	Spike Added	LCS			D	%Rec	Limits
		Result	Qualifier	Unit			
Aldrin	0.100	0.0720		ug/L		72	14 - 168
alpha-BHC	0.100	0.0729		ug/L		73	43 - 138
beta-BHC	0.100	0.0994		ug/L		99	38 - 158
delta-BHC	0.100	0.0770		ug/L		77	23 - 191
gamma-BHC (Lindane)	0.100	0.0762		ug/L		76	54 - 134
alpha-Chlordane	0.100	0.0786		ug/L		79	60 - 130
gamma-Chlordane	0.100	0.0781		ug/L		78	50 - 145
Dieldrin	0.100	0.0816		ug/L		82	61 - 136
4,4'-DDD	0.100	0.0825		ug/L		83	49 - 144
4,4'-DDE	0.100	0.0772		ug/L		77	46 - 144
4,4'-DDT	0.100	0.0873		ug/L		87	48 - 166
Endosulfan I	0.100	0.0725		ug/L		73	52 - 141
Endosulfan II	0.100	0.0788		ug/L		79	60 - 140
Endosulfan sulfate	0.100	0.0852		ug/L		85	60 - 151
Endrin	0.100	0.0967		ug/L		97	66 - 150
Endrin aldehyde	0.100	0.0865		ug/L		86	16 - 200
Endrin ketone	0.100	0.0868		ug/L		87	55 - 156
Heptachlor	0.100	0.0774		ug/L		77	10 - 200
Heptachlor epoxide	0.100	0.0789		ug/L		79	49 - 142
Methoxychlor	0.100	0.0882		ug/L		88	13 - 186

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-89479-1

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-273899/16-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 274920

Prep Batch: 273899

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	60				22 - 130
DCB Decachlorobiphenyl	71				22 - 130
Tetrachloro-m-xylene	64				53 - 130
Tetrachloro-m-xylene	66				53 - 130

Lab Sample ID: LCS 680-273899/24-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 274920

Prep Batch: 273899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Toxaphene	8.00	8.15		ug/L		102	35 - 138

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	60				22 - 130
DCB Decachlorobiphenyl	71				22 - 130
Tetrachloro-m-xylene	71				53 - 130
Tetrachloro-m-xylene	74				53 - 130

# QC Association Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

## GC/MS VOA

### Analysis Batch: 274400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89479-1	Effluent	Total/NA	Water	8260B	
680-89479-2	Carbon B-1	Total/NA	Water	8260B	
680-89479-3	Carbon A-3	Total/NA	Water	8260B	
680-89479-4	Influent	Total/NA	Water	8260B	
LCS 680-274400/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-274400/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-274400/7	Method Blank	Total/NA	Water	8260B	

## GC Semi VOA

### Prep Batch: 273899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89479-1	Effluent	Total/NA	Water	3520C	
680-89479-2	Carbon B-1	Total/NA	Water	3520C	
680-89479-3	Carbon A-3	Total/NA	Water	3520C	
680-89479-4	Influent	Total/NA	Water	3520C	
680-89479-4 - DL	Influent	Total/NA	Water	3520C	
LCS 680-273899/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-273899/24-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-273899/15-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 274560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89479-1	Effluent	Total/NA	Water	8081B/8082A	
680-89479-2	Carbon B-1	Total/NA	Water	8081B/8082A	
680-89479-3	Carbon A-3	Total/NA	Water	8081B/8082A	
680-89479-4	Influent	Total/NA	Water	8081B/8082A	

### Analysis Batch: 274920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-273899/16-A	Lab Control Sample	Total/NA	Water	8081B/8082A	
LCS 680-273899/24-A	Lab Control Sample	Total/NA	Water	8081B/8082A	
MB 680-273899/15-A	Method Blank	Total/NA	Water	8081B/8082A	

### Analysis Batch: 275519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89479-4 - DL	Influent	Total/NA	Water	8081B/8082A	

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## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

### Client Sample ID: Effluent

Date Collected: 04/17/13 10:42

Date Received: 04/18/13 09:52

Lab Sample ID: 680-89479-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	274400	04/25/13 13:13	JD	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 05:01	GM	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 05:01	GM	TAL SAV

### Client Sample ID: Carbon B-1

Date Collected: 04/17/13 10:50

Date Received: 04/18/13 09:52

Lab Sample ID: 680-89479-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	274400	04/25/13 13:43	JD	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 05:24	GM	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 05:24	GM	TAL SAV

### Client Sample ID: Carbon A-3

Date Collected: 04/17/13 10:57

Date Received: 04/18/13 09:52

Lab Sample ID: 680-89479-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	274400	04/25/13 14:12	JD	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 05:46	GM	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 05:46	GM	TAL SAV

### Client Sample ID: Influent

Date Collected: 04/17/13 11:04

Date Received: 04/18/13 09:52

Lab Sample ID: 680-89479-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	274400	04/25/13 14:42	JD	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 06:09	GM	TAL SAV
Total/NA	Prep	3520C			273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	274560	04/25/13 06:09	GM	TAL SAV
Total/NA	Prep	3520C	DL		273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	275519	05/03/13 15:27	JK	TAL SAV
Total/NA	Prep	3520C	DL		273899	04/22/13 15:40	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	275519	05/03/13 15:27	JK	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-89479-1

**Login Number: 89479**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Kicklighter, Marilyn**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	Insufficient volume received for MS/MSD.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

## Certification Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 2Q13 / APR 2013

TestAmerica Job ID: 680-89479-1

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-92790-1

Client Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

For:

Kleinfelder Inc

313 Gallimore Dairy Road

Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay



Authorized for release by:

8/14/2013 10:12:21 AM

Michele Kersey, Project Manager I

[michele.kersey@testamericainc.com](mailto:michele.kersey@testamericainc.com)

### LINKS

Review your project  
results through

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The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## Case Narrative

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

**Job ID: 680-92790-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Kleinfelder Inc**

**Project: Geigy Chemical Corp. - 3Q13 / JUL 2013**

**Report Number: 680-92790-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 7/31/2013 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples Influent (680-92790-1), Carbon A-3 (680-92790-2), Carbon B-1 (680-92790-3), Effluent (680-92790-4) and Trip Blank (680-92790-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/01/2013.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

#### **PESTICIDES AND PCBs**

Samples Influent (680-92790-1), Carbon A-3 (680-92790-2), Carbon B-1 (680-92790-3) and Effluent (680-92790-4) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B\_8082A. The samples were prepared on 08/05/2013 and analyzed on 08/06/2013 and 08/07/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 287651 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria  
Refer to the QC report for details.

Sample Influent (680-92790-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Pesticides and PCBs analysis.

All other quality control parameters were within the acceptance limits.

## Sample Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-92790-1	Influent	Water	07/30/13 15:52	07/31/13 09:25
680-92790-2	Carbon A-3	Water	07/30/13 16:10	07/31/13 09:25
680-92790-3	Carbon B-1	Water	07/30/13 16:16	07/31/13 09:25
680-92790-4	Effluent	Water	07/30/13 16:24	07/31/13 09:25
680-92790-5	Trip Blank	Water	07/30/13 09:00	07/31/13 09:25

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TestAmerica Savannah

## Method Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Definitions/Glossary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
E	Result exceeded calibration range.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
X	Surrogate is outside control limits

### Glossary

#### Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-92790-1

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

## Client Sample ID: Influent

**Lab Sample ID: 680-92790-1**

**Matrix: Water**

Date Collected: 07/30/13 15:52

Date Received: 07/31/13 09:25

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	4.0		1.0	0.13	ug/L			08/01/13 12:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97		70 - 130					08/01/13 12:53	1
4-Bromofluorobenzene	96		70 - 130					08/01/13 12:53	1
Dibromofluoromethane	106		70 - 130					08/01/13 12:53	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>alpha-BHC</b>	<b>0.062</b>		0.050	0.0057	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>beta-BHC</b>	<b>1.7 E p</b>		0.050	0.0067	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>delta-BHC</b>	<b>0.68</b>		0.050	0.0048	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>gamma-BHC (Lindane)</b>	<b>0.042 J p</b>		0.050	0.0059	ug/L		08/05/13 15:23	08/06/13 22:01	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		08/05/13 15:23	08/06/13 22:01	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>Dieldrin</b>	<b>0.36</b>		0.050	0.0091	ug/L		08/05/13 15:23	08/06/13 22:01	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		08/05/13 15:23	08/06/13 22:01	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		08/05/13 15:23	08/06/13 22:01	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		08/05/13 15:23	08/06/13 22:01	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		08/05/13 15:23	08/06/13 22:01	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		08/05/13 15:23	08/06/13 22:01	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		08/05/13 15:23	08/06/13 22:01	1
Endrin	0.050	U	0.050	0.0097	ug/L		08/05/13 15:23	08/06/13 22:01	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>Endrin ketone</b>	<b>0.24</b>		0.050	0.0084	ug/L		08/05/13 15:23	08/06/13 22:01	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>Heptachlor epoxide</b>	<b>0.055</b>		0.050	0.0060	ug/L		08/05/13 15:23	08/06/13 22:01	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>Toxaphene</b>	<b>5.4 p</b>		5.0	0.50	ug/L		08/05/13 15:23	08/06/13 22:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	70		22 - 130				08/05/13 15:23	08/06/13 22:01	1
Tetrachloro-m-xylene	55		53 - 130				08/05/13 15:23	08/06/13 22:01	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.25	U	0.25	0.035	ug/L		08/05/13 15:23	08/07/13 12:49	5
<b>alpha-BHC</b>	<b>0.064 J D</b>		0.25	0.028	ug/L		08/05/13 15:23	08/07/13 12:49	5
<b>beta-BHC</b>	<b>2.5 D</b>		0.25	0.033	ug/L		08/05/13 15:23	08/07/13 12:49	5
<b>delta-BHC</b>	<b>0.60 D</b>		0.25	0.024	ug/L		08/05/13 15:23	08/07/13 12:49	5
<b>gamma-BHC (Lindane)</b>	<b>0.043 J D</b>		0.25	0.029	ug/L		08/05/13 15:23	08/07/13 12:49	5
alpha-Chlordane	0.25	U	0.25	0.030	ug/L		08/05/13 15:23	08/07/13 12:49	5
gamma-Chlordane	0.25	U	0.25	0.025	ug/L		08/05/13 15:23	08/07/13 12:49	5
<b>Dieldrin</b>	<b>0.35 D</b>		0.25	0.045	ug/L		08/05/13 15:23	08/07/13 12:49	5
4,4'-DDD	0.25	U	0.25	0.032	ug/L		08/05/13 15:23	08/07/13 12:49	5
4,4'-DDE	0.25	U	0.25	0.038	ug/L		08/05/13 15:23	08/07/13 12:49	5
4,4'-DDT	0.25	U	0.25	0.048	ug/L		08/05/13 15:23	08/07/13 12:49	5
Endosulfan I	0.25	U	0.25	0.021	ug/L		08/05/13 15:23	08/07/13 12:49	5
Endosulfan II	0.25	U	0.25	0.049	ug/L		08/05/13 15:23	08/07/13 12:49	5

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

## Client Sample ID: Influent

**Lab Sample ID: 680-92790-1**

Matrix: Water

Date Collected: 07/30/13 15:52

Date Received: 07/31/13 09:25

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.25	U	0.25	0.034	ug/L	08/05/13 15:23	08/07/13 12:49		5
Endrin	0.25	U	0.25	0.048	ug/L	08/05/13 15:23	08/07/13 12:49		5
Endrin aldehyde	0.25	U	0.25	0.080	ug/L	08/05/13 15:23	08/07/13 12:49		5
<b>Endrin ketone</b>	<b>0.25</b>	<b>D</b>	0.25	0.042	ug/L	08/05/13 15:23	08/07/13 12:49		5
Heptachlor	0.25	U	0.25	0.035	ug/L	08/05/13 15:23	08/07/13 12:49		5
<b>Heptachlor epoxide</b>	<b>0.054</b>	<b>J D</b>	0.25	0.030	ug/L	08/05/13 15:23	08/07/13 12:49		5
Methoxychlor	0.25	U	0.25	0.065	ug/L	08/05/13 15:23	08/07/13 12:49		5
<b>Toxaphene</b>	<b>7.9</b>	<b>J D</b>	25	2.5	ug/L	08/05/13 15:23	08/07/13 12:49		5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
DCB Decachlorobiphenyl	75	D	22 - 130			08/05/13 15:23	08/07/13 12:49		5
Tetrachloro-m-xylene	60	D	53 - 130			08/05/13 15:23	08/07/13 12:49		5

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

**Client Sample ID: Carbon A-3**

**Lab Sample ID: 680-92790-2**

**Matrix: Water**

Date Collected: 07/30/13 16:10

Date Received: 07/31/13 09:25

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			08/01/13 13:15	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	98		70 - 130				Prepared	08/01/13 13:15	1
4-Bromofluorobenzene	94		70 - 130					08/01/13 13:15	1
Dibromofluoromethane	106		70 - 130					08/01/13 13:15	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0069	ug/L			08/06/13 22:24	1
alpha-BHC	0.050	U	0.050	0.0056	ug/L		08/05/13 15:23	08/06/13 22:24	1
<b>beta-BHC</b>	<b>0.0082</b>	<b>J p</b>	0.050	0.0066	ug/L		08/05/13 15:23	08/06/13 22:24	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		08/05/13 15:23	08/06/13 22:24	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0058	ug/L		08/05/13 15:23	08/06/13 22:24	1
alpha-Chlordane	0.050	U	0.050	0.0059	ug/L		08/05/13 15:23	08/06/13 22:24	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		08/05/13 15:23	08/06/13 22:24	1
Dieldrin	0.050	U	0.050	0.0090	ug/L		08/05/13 15:23	08/06/13 22:24	1
4,4'-DDD	0.050	U	0.050	0.0064	ug/L		08/05/13 15:23	08/06/13 22:24	1
4,4'-DDE	0.050	U	0.050	0.0076	ug/L		08/05/13 15:23	08/06/13 22:24	1
4,4'-DDT	0.050	U	0.050	0.0096	ug/L		08/05/13 15:23	08/06/13 22:24	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		08/05/13 15:23	08/06/13 22:24	1
Endosulfan II	0.050	U	0.050	0.0097	ug/L		08/05/13 15:23	08/06/13 22:24	1
Endosulfan sulfate	0.050	U	0.050	0.0067	ug/L		08/05/13 15:23	08/06/13 22:24	1
Endrin	0.050	U	0.050	0.0096	ug/L		08/05/13 15:23	08/06/13 22:24	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		08/05/13 15:23	08/06/13 22:24	1
Endrin ketone	0.050	U	0.050	0.0083	ug/L		08/05/13 15:23	08/06/13 22:24	1
Heptachlor	0.050	U	0.050	0.0069	ug/L		08/05/13 15:23	08/06/13 22:24	1
Heptachlor epoxide	0.050	U	0.050	0.0059	ug/L		08/05/13 15:23	08/06/13 22:24	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		08/05/13 15:23	08/06/13 22:24	1
Toxaphene	5.0	U	5.0	0.50	ug/L		08/05/13 15:23	08/06/13 22:24	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	80		22 - 130				Prepared	08/06/13 22:24	1
Tetrachloro-m-xylene	59		53 - 130					08/06/13 22:24	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

**Client Sample ID: Carbon B-1**

**Lab Sample ID: 680-92790-3**

**Matrix: Water**

Date Collected: 07/30/13 16:16

Date Received: 07/31/13 09:25

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			08/01/13 13:38	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	97		70 - 130				Prepared	08/01/13 13:38	1
4-Bromofluorobenzene	95		70 - 130					08/01/13 13:38	1
Dibromofluoromethane	104		70 - 130					08/01/13 13:38	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		08/05/13 15:23	08/06/13 22:46	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		08/05/13 15:23	08/06/13 22:46	1
beta-BHC	0.048	U	0.048	0.0064	ug/L		08/05/13 15:23	08/06/13 22:46	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		08/05/13 15:23	08/06/13 22:46	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		08/05/13 15:23	08/06/13 22:46	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		08/05/13 15:23	08/06/13 22:46	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		08/05/13 15:23	08/06/13 22:46	1
Dieldrin	0.048	U	0.048	0.0087	ug/L		08/05/13 15:23	08/06/13 22:46	1
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		08/05/13 15:23	08/06/13 22:46	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		08/05/13 15:23	08/06/13 22:46	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		08/05/13 15:23	08/06/13 22:46	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		08/05/13 15:23	08/06/13 22:46	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		08/05/13 15:23	08/06/13 22:46	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		08/05/13 15:23	08/06/13 22:46	1
Endrin	0.048	U	0.048	0.0093	ug/L		08/05/13 15:23	08/06/13 22:46	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		08/05/13 15:23	08/06/13 22:46	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L		08/05/13 15:23	08/06/13 22:46	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		08/05/13 15:23	08/06/13 22:46	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		08/05/13 15:23	08/06/13 22:46	1
Methoxychlor	0.048	U	0.048	0.012	ug/L		08/05/13 15:23	08/06/13 22:46	1
Toxaphene	4.8	U	4.8	0.48	ug/L		08/05/13 15:23	08/06/13 22:46	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	73		22 - 130				Prepared	08/05/13 15:23	1
Tetrachloro-m-xylene	62		53 - 130					08/05/13 15:23	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

## Client Sample ID: Effluent

Lab Sample ID: 680-92790-4

Matrix: Water

Date Collected: 07/30/13 16:24

Date Received: 07/31/13 09:25

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			08/01/13 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					08/01/13 14:01	1
4-Bromofluorobenzene	96		70 - 130					08/01/13 14:01	1
Dibromofluoromethane	104		70 - 130					08/01/13 14:01	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L			08/06/13 23:09	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L			08/06/13 23:09	1
beta-BHC	0.048	U	0.048	0.0064	ug/L			08/06/13 23:09	1
delta-BHC	0.048	U	0.048	0.0046	ug/L			08/06/13 23:09	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L			08/06/13 23:09	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L			08/06/13 23:09	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L			08/06/13 23:09	1
Dieldrin	0.048	U	0.048	0.0088	ug/L			08/06/13 23:09	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L			08/06/13 23:09	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L			08/06/13 23:09	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L			08/06/13 23:09	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L			08/06/13 23:09	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L			08/06/13 23:09	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L			08/06/13 23:09	1
Endrin	0.048	U	0.048	0.0093	ug/L			08/06/13 23:09	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L			08/06/13 23:09	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L			08/06/13 23:09	1
Heptachlor	0.048	U	0.048	0.0067	ug/L			08/06/13 23:09	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L			08/06/13 23:09	1
Methoxychlor	0.048	U	0.048	0.013	ug/L			08/06/13 23:09	1
Toxaphene	4.8	U	4.8	0.48	ug/L			08/06/13 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		22 - 130				08/06/13 23:09		1
Tetrachloro-m-xylene	57		53 - 130				08/06/13 23:09		1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 680-92790-5**

**Matrix: Water**

Date Collected: 07/30/13 09:00

Date Received: 07/31/13 09:25

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			08/01/13 12:07	1
<hr/>									
<b>Surrogate</b>									
Toluene-d8 (Surr)	97		70 - 130				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130					08/01/13 12:07	1
Dibromofluoromethane	106		70 - 130					08/01/13 12:07	1

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-92790-1

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID:** MB 680-287132/8

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 287132

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	1.0	U	1.0	0.13	ug/L			08/01/13 11:22	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	97		70 - 130				Prepared	08/01/13 11:22	1
4-Bromofluorobenzene	95		70 - 130					08/01/13 11:22	1
Dibromofluoromethane	100		70 - 130					08/01/13 11:22	1

**Lab Sample ID:** LCS 680-287132/4

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 287132

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
	Added							
Trichloroethene	50.0		47.4		ug/L		95	80 - 120
<b>Surrogate</b>								
Toluene-d8 (Surr)	98		70 - 130					
4-Bromofluorobenzene	97		70 - 130					
Dibromofluoromethane	96		70 - 130					

**Lab Sample ID:** LCSD 680-287132/5

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 287132

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.
	Added							
Trichloroethene	50.0		47.5		ug/L		95	80 - 120
<b>Surrogate</b>								
Toluene-d8 (Surr)	97		70 - 130					
4-Bromofluorobenzene	95		70 - 130					
Dibromofluoromethane	94		70 - 130					

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

**Lab Sample ID:** MB 680-287651/7-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 288044

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	0.050	U	0.050	0.0070	ug/L		08/05/13 15:23	08/06/13 18:13	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		08/05/13 15:23	08/06/13 18:13	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		08/05/13 15:23	08/06/13 18:13	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		08/05/13 15:23	08/06/13 18:13	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		08/05/13 15:23	08/06/13 18:13	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		08/05/13 15:23	08/06/13 18:13	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		08/05/13 15:23	08/06/13 18:13	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		08/05/13 15:23	08/06/13 18:13	1

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# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-92790-1

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-287651/7-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 288044

Prep Batch: 287651

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		08/05/13 15:23	08/06/13 18:13	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		08/05/13 15:23	08/06/13 18:13	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		08/05/13 15:23	08/06/13 18:13	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		08/05/13 15:23	08/06/13 18:13	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		08/05/13 15:23	08/06/13 18:13	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		08/05/13 15:23	08/06/13 18:13	1
Endrin	0.050	U	0.050	0.0097	ug/L		08/05/13 15:23	08/06/13 18:13	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		08/05/13 15:23	08/06/13 18:13	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		08/05/13 15:23	08/06/13 18:13	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		08/05/13 15:23	08/06/13 18:13	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		08/05/13 15:23	08/06/13 18:13	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		08/05/13 15:23	08/06/13 18:13	1
Toxaphene	5.0	U	5.0	0.50	ug/L		08/05/13 15:23	08/06/13 18:13	1
Surrogate	MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	71		22 - 130				08/05/13 15:23	08/06/13 18:13	1
Tetrachloro-m-xylene	71		53 - 130				08/05/13 15:23	08/06/13 18:13	1

Lab Sample ID: LCS 680-287651/8-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 288044

Prep Batch: 287651

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier	Unit					
Aldrin	0.100	0.0843		ug/L		84	14 - 168		
alpha-BHC	0.100	0.0856		ug/L		86	43 - 138		
beta-BHC	0.100	0.0942	p	ug/L		94	38 - 158		
delta-BHC	0.100	0.0959		ug/L		96	23 - 191		
gamma-BHC (Lindane)	0.100	0.0869		ug/L		87	54 - 134		
alpha-Chlordane	0.100	0.0946		ug/L		95	60 - 130		
gamma-Chlordane	0.100	0.0945		ug/L		94	50 - 145		
Dieldrin	0.100	0.0991		ug/L		99	61 - 136		
4,4'-DDD	0.100	0.108		ug/L		108	49 - 144		
4,4'-DDE	0.100	0.0898		ug/L		90	46 - 144		
4,4'-DDT	0.100	0.0858		ug/L		86	48 - 166		
Endosulfan I	0.100	0.0933		ug/L		93	52 - 141		
Endosulfan II	0.100	0.0962		ug/L		96	60 - 140		
Endosulfan sulfate	0.100	0.0979		ug/L		98	60 - 151		
Endrin	0.100	0.111		ug/L		111	66 - 150		
Endrin aldehyde	0.100	0.0967		ug/L		97	16 - 200		
Endrin ketone	0.100	0.0943		ug/L		94	55 - 156		
Heptachlor	0.100	0.0778		ug/L		78	10 - 200		
Heptachlor epoxide	0.100	0.0934		ug/L		93	49 - 142		
Methoxychlor	0.100	0.0908		ug/L		91	13 - 186		
Surrogate	LCS		Limits			D	%Rec	Limits	%Rec.
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	64		22 - 130						

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# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-92790-1

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: LCS 680-287651/8-A**

**Matrix: Water**

**Analysis Batch: 288044**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 287651**

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene			62		53 - 130

**Lab Sample ID: LCSD 680-287651/9-A**

**Matrix: Water**

**Analysis Batch: 288044**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 287651**

Analyte	Spike Added	LCSD			Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier	Unit						
Aldrin	0.100	0.0774		ug/L		77	14 - 168		9	50
alpha-BHC	0.100	0.0865		ug/L		86	43 - 138		1	50
beta-BHC	0.100	0.0917	p	ug/L		92	38 - 158		3	50
delta-BHC	0.100	0.0920		ug/L		92	23 - 191		4	50
gamma-BHC (Lindane)	0.100	0.0868		ug/L		87	54 - 134		0	50
alpha-Chlordane	0.100	0.0916		ug/L		92	60 - 130		3	50
gamma-Chlordane	0.100	0.0901		ug/L		90	50 - 145		5	50
Dieldrin	0.100	0.0952		ug/L		95	61 - 136		4	50
4,4'-DDD	0.100	0.0988		ug/L		99	49 - 144		9	50
4,4'-DDE	0.100	0.0864		ug/L		86	46 - 144		4	50
4,4'-DDT	0.100	0.0808		ug/L		81	48 - 166		6	50
Endosulfan I	0.100	0.0909		ug/L		91	52 - 141		3	50
Endosulfan II	0.100	0.0924		ug/L		92	60 - 140		4	50
Endosulfan sulfate	0.100	0.0912		ug/L		91	60 - 151		7	50
Endrin	0.100	0.104		ug/L		104	66 - 150		6	50
Endrin aldehyde	0.100	0.0948		ug/L		95	16 - 200		2	50
Endrin ketone	0.100	0.0908		ug/L		91	55 - 156		4	50
Heptachlor	0.100	0.0719		ug/L		72	10 - 200		8	50
Heptachlor epoxide	0.100	0.0913		ug/L		91	49 - 142		2	50
Methoxychlor	0.100	0.0830		ug/L		83	13 - 186		9	50

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl			71		22 - 130
Tetrachloro-m-xylene			64		53 - 130

**Lab Sample ID: 680-92790-1 MS**

**Matrix: Water**

**Analysis Batch: 288044**

**Client Sample ID: Influent**

**Prep Type: Total/NA**

**Prep Batch: 287651**

Analyte	Sample	Sample	Spike	MS			Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier	Unit				
Aldrin	0.050	U	0.0978	0.0836	p	ug/L		86	14 - 168	
alpha-BHC	0.062		0.0978	0.118		ug/L		57	43 - 138	
beta-BHC	1.7	E p	0.0978	2.31	E 4	ug/L		625	38 - 158	
delta-BHC	0.68		0.0978	0.727	4	ug/L		45	23 - 191	
gamma-BHC (Lindane)	0.042	J p	0.0978	0.101	p	ug/L		60	54 - 134	
alpha-Chlordane	0.050	U	0.0978	0.134	p F	ug/L		137	60 - 130	
gamma-Chlordane	0.050	U	0.0978	0.140		ug/L		143	50 - 145	
Dieldrin	0.36		0.0978	0.407	F	ug/L		49	61 - 136	
4,4'-DDD	0.050	U	0.0978	0.224	F	ug/L		229	49 - 144	

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-92790-1

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-92790-1 MS

Client Sample ID: Influent

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 288044

Prep Batch: 287651

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
4,4'-DDE	0.050	U	0.0978	0.119		ug/L		122	46 - 144		
4,4'-DDT	0.050	U	0.0978	0.166	p F	ug/L		170	48 - 166		
Endosulfan I	0.050	U	0.0978	0.148	F	ug/L		152	52 - 141		
Endosulfan II	0.050	U	0.0978	0.306	F	ug/L		312	60 - 140		
Endosulfan sulfate	0.050	U	0.0978	0.146		ug/L		149	60 - 151		
Endrin	0.050	U	0.0978	0.212	F	ug/L		217	66 - 150		
Endrin aldehyde	0.050	U	0.0978	0.113	p	ug/L		116	16 - 200		
Endrin ketone	0.24		0.0978	0.328		ug/L		94	55 - 156		
Heptachlor	0.050	U	0.0978	0.0705	p	ug/L		72	10 - 200		
Heptachlor epoxide	0.055		0.0978	0.117	p	ug/L		63	49 - 142		
Methoxychlor	0.050	U	0.0978	0.201	p F	ug/L		205	13 - 186		
<hr/>											
Surrogate	MS		MS								
	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	75		22 - 130								
Tetrachloro-m-xylene	54		53 - 130								

Lab Sample ID: 680-92790-1 MSD

Client Sample ID: Influent

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 288044

Prep Batch: 287651

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aldrin	0.050	U	0.0980	0.0745	p	ug/L		76	14 - 168	12	50
alpha-BHC	0.062		0.0980	0.105		ug/L		44	43 - 138	12	50
beta-BHC	1.7	E p	0.0980	2.03	E 4	ug/L		338	38 - 158	13	50
delta-BHC	0.68		0.0980	0.645	4	ug/L		-38	23 - 191	12	50
gamma-BHC (Lindane)	0.042	J p	0.0980	0.0936	p F	ug/L		52	54 - 134	8	50
alpha-Chlordane	0.050	U	0.0980	0.124	p	ug/L		127	60 - 130	8	50
gamma-Chlordane	0.050	U	0.0980	0.126		ug/L		129	50 - 145	10	50
Dieldrin	0.36		0.0980	0.366	F	ug/L		8	61 - 136	11	50
4,4'-DDD	0.050	U	0.0980	0.049	U F	ug/L		0	49 - 144	NC	50
4,4'-DDE	0.050	U	0.0980	0.104		ug/L		107	46 - 144	13	50
4,4'-DDT	0.050	U	0.0980	0.148	p	ug/L		151	48 - 166	11	50
Endosulfan I	0.050	U	0.0980	0.137		ug/L		140	52 - 141	8	50
Endosulfan II	0.050	U	0.0980	0.281	F	ug/L		287	60 - 140	8	50
Endosulfan sulfate	0.050	U	0.0980	0.127		ug/L		129	60 - 151	14	50
Endrin	0.050	U	0.0980	0.185	F	ug/L		188	66 - 150	14	50
Endrin aldehyde	0.050	U	0.0980	0.160	p	ug/L		163	16 - 200	34	50
Endrin ketone	0.24		0.0980	0.279	F	ug/L		43	55 - 156	16	50
Heptachlor	0.050	U	0.0980	0.0614	p	ug/L		63	10 - 200	14	50
Heptachlor epoxide	0.055		0.0980	0.107	p	ug/L		53	49 - 142	9	50
Methoxychlor	0.050	U	0.0980	0.195	p F	ug/L		199	13 - 186	3	50
<hr/>											
Surrogate	MSD		MSD								
	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl	63		22 - 130								
Tetrachloro-m-xylene	47	X	53 - 130								

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-92790-1

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-92790-2 MS

Client Sample ID: Carbon A-3

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 288044

Prep Batch: 287651

Surrogate	MS	MS	
	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	75		22 - 130
Tetrachloro-m-xylene	52	X	53 - 130

Lab Sample ID: 680-92790-2 MSD

Client Sample ID: Carbon A-3

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 288044

Prep Batch: 287651

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	84		22 - 130
Tetrachloro-m-xylene	59		53 - 130

# QC Association Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

## GC/MS VOA

### Analysis Batch: 287132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92790-1	Influent	Total/NA	Water	8260B	
680-92790-2	Carbon A-3	Total/NA	Water	8260B	
680-92790-3	Carbon B-1	Total/NA	Water	8260B	
680-92790-4	Effluent	Total/NA	Water	8260B	
680-92790-5	Trip Blank	Total/NA	Water	8260B	
LCS 680-287132/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-287132/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-287132/8	Method Blank	Total/NA	Water	8260B	

## GC Semi VOA

### Prep Batch: 287651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92790-1	Influent	Total/NA	Water	3520C	
680-92790-1 - DL	Influent	Total/NA	Water	3520C	
680-92790-1 MS	Influent	Total/NA	Water	3520C	
680-92790-1 MSD	Influent	Total/NA	Water	3520C	
680-92790-2	Carbon A-3	Total/NA	Water	3520C	
680-92790-2 MS	Carbon A-3	Total/NA	Water	3520C	
680-92790-2 MSD	Carbon A-3	Total/NA	Water	3520C	
680-92790-3	Carbon B-1	Total/NA	Water	3520C	
680-92790-4	Effluent	Total/NA	Water	3520C	
LCS 680-287651/8-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-287651/9-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-287651/7-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 288044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92790-1	Influent	Total/NA	Water	8081B/8082A	287651
680-92790-1 MS	Influent	Total/NA	Water	8081B/8082A	287651
680-92790-1 MSD	Influent	Total/NA	Water	8081B/8082A	287651
680-92790-2	Carbon A-3	Total/NA	Water	8081B/8082A	287651
680-92790-2 MS	Carbon A-3	Total/NA	Water	8081B/8082A	287651
680-92790-2 MSD	Carbon A-3	Total/NA	Water	8081B/8082A	287651
680-92790-3	Carbon B-1	Total/NA	Water	8081B/8082A	287651
680-92790-4	Effluent	Total/NA	Water	8081B/8082A	287651
LCS 680-287651/8-A	Lab Control Sample	Total/NA	Water	8081B/8082A	287651
LCSD 680-287651/9-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	287651
MB 680-287651/7-A	Method Blank	Total/NA	Water	8081B/8082A	287651

### Analysis Batch: 288052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-92790-1 - DL	Influent	Total/NA	Water	8081B/8082A	287651

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

### Client Sample ID: Influent

Lab Sample ID: 680-92790-1

Matrix: Water

Date Collected: 07/30/13 15:52

Date Received: 07/31/13 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	287132	08/01/13 12:53	JD1	TAL SAV
Total/NA	Prep	3520C			287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	288044	08/06/13 22:01	JCK	TAL SAV
Total/NA	Prep	3520C			287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Prep	3520C	DL		287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Prep	3520C	DL		287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	5	288052	08/07/13 12:49	JCK	TAL SAV

### Client Sample ID: Carbon A-3

Lab Sample ID: 680-92790-2

Matrix: Water

Date Collected: 07/30/13 16:10

Date Received: 07/31/13 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	287132	08/01/13 13:15	JD1	TAL SAV
Total/NA	Prep	3520C			287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	288044	08/06/13 22:24	JCK	TAL SAV

### Client Sample ID: Carbon B-1

Lab Sample ID: 680-92790-3

Matrix: Water

Date Collected: 07/30/13 16:16

Date Received: 07/31/13 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	287132	08/01/13 13:38	JD1	TAL SAV
Total/NA	Prep	3520C			287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	288044	08/06/13 22:46	JCK	TAL SAV

### Client Sample ID: Effluent

Lab Sample ID: 680-92790-4

Matrix: Water

Date Collected: 07/30/13 16:24

Date Received: 07/31/13 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	287132	08/01/13 14:01	JD1	TAL SAV
Total/NA	Prep	3520C			287651	08/05/13 15:23	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	288044	08/06/13 23:09	JCK	TAL SAV

### Client Sample ID: Trip Blank

Lab Sample ID: 680-92790-5

Matrix: Water

Date Collected: 07/30/13 09:00

Date Received: 07/31/13 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	287132	08/01/13 12:07	JD1	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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## Certification Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 3Q13 / JUL 2013

TestAmerica Job ID: 680-92790-1

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-13 *
Arkansas DEQ	State Program	6	88-0692	02-01-14 *
California	NELAP	9	3217CA	07-31-13 *
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13 *
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	09-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13 *

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# TestAmerica

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

### THE LEADER IN ENVIRONMENTAL TESTING

Serial Number 65857

#### PROJECT REFERENCE

PROJECT NO.  
01-2

P.O. NUMBER  
124742

PROJECT LOCATION  
(STATE)  
NC

MATRIX TYPE  
CONTRACT NO.

CLIENT FAX

CLIENT PHONE  
336.622.9373

CLIENT E-MAIL  
pozzi@clerkfelder.ca

CLIENT NAME  
Chris Pozzi

CLIENT ADDRESS  
1 Klein Felder

COMPONENT (C) OR GRAB (G) INDICATE  
AGQUEOUS WATER

SOLID OR SEMISOLID  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

NUMBER OF COOLERS SUBMITTED  
1

NUMBER OF CONTAINERS SUBMITTED  
1

NUMBER OF SHIPMENTS  
1

NUMBER OF COOLERS SUBMITTED  
1

NUMBER OF CONTAINERS SUBMITTED  
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NUMBER OF COOLERS SUBMITTED  
1

NUMBER OF CONTAINERS SUBMITTED  
1

NUMBER OF SHIPMENTS  
1

#### RECEIVED FOR LABORATORY BY:

Feld Ex

(SIGNATURE)

DATE  
7-30-13

TIME  
1557

RELINQUISHED BY: (SIGNATURE)

DATE  
7-30-13

TIME  
1610

RECEIVED BY: (SIGNATURE)

DATE  
7-30-13

TIME  
1616

RECEIVED BY: (SIGNATURE)

DATE  
7-30-13

TIME  
1624

RECEIVED BY: (SIGNATURE)

DATE  
7-30-13

TIME  
1621

RECEIVED BY: (SIGNATURE)

DATE  
7-30-13

TIME  
1625

RECEIVED BY: (SIGNATURE)

DATE  
7-30-13

## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-92790-1

**Login Number: 92790**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Mulvehill, Dana J**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-95339-1

Client Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

For:

Kleinfelder Inc

313 Gallimore Dairy Road

Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay

*Michele Kersey*

Authorized for release by:

11/1/2013 2:47:18 PM

Michele Kersey, Project Manager I

(912)354-7858

[michele.kersey@testamericainc.com](mailto:michele.kersey@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## Case Narrative

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

**Job ID: 680-95339-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Kleinfelder Inc**

**Project: Geigy Chemical Corp. - 4Q13 / OCT 2013**

**Report Number: 680-95339-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 10/19/2013 8:41 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples Influent (680-95339-1), Effluent (680-95339-2), Carbon A-2 (680-95339-3), Carbon B-3 (680-95339-4) and Trip Blank (680-95339-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/25/2013.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

#### **PESTICIDES AND PCBs**

Samples Influent (680-95339-1), Effluent (680-95339-2), Carbon A-2 (680-95339-3) and Carbon B-3 (680-95339-4) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B\_8082A. The samples were prepared on 10/25/2013 and analyzed on 10/29/2013 and 10/31/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Sample Influent (680-95339-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Pesticides and PCBs analysis.

All quality control parameters were within the acceptance limits.

## Sample Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-95339-1	Influent	Water	10/18/13 14:39	10/19/13 08:41
680-95339-2	Effluent	Water	10/18/13 14:28	10/19/13 08:41
680-95339-3	Carbon A-2	Water	10/18/13 14:21	10/19/13 08:41
680-95339-4	Carbon B-3	Water	10/18/13 14:14	10/19/13 08:41
680-95339-5	Trip Blank	Water	10/18/13 00:00	10/19/13 08:41

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TestAmerica Savannah

## Method Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Definitions/Glossary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
P	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
E	Result exceeded calibration range.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

#### Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-95339-1

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

## Client Sample ID: Influent

**Lab Sample ID: 680-95339-1**

Matrix: Water

Date Collected: 10/18/13 14:39

Date Received: 10/19/13 08:41

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	4.6		1.0	0.13	ug/L			10/25/13 16:57	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	99		70 - 130				Prepared	10/25/13 16:57	1
4-Bromofluorobenzene	102		70 - 130					10/25/13 16:57	1
Dibromofluoromethane	111		70 - 130					10/25/13 16:57	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.052	U	0.052	0.0072	ug/L		10/25/13 15:25	10/29/13 18:40	1
alpha-BHC	0.077		0.052	0.0059	ug/L		10/25/13 15:25	10/29/13 18:40	1
beta-BHC	2.9	E	0.052	0.0069	ug/L		10/25/13 15:25	10/29/13 18:40	1
delta-BHC	0.78		0.052	0.0050	ug/L		10/25/13 15:25	10/29/13 18:40	1
gamma-BHC (Lindane)	0.059	p	0.052	0.0061	ug/L		10/25/13 15:25	10/29/13 18:40	1
alpha-Chlordane	0.052	U	0.052	0.0062	ug/L		10/25/13 15:25	10/29/13 18:40	1
gamma-Chlordane	0.052	U	0.052	0.0053	ug/L		10/25/13 15:25	10/29/13 18:40	1
Dieldrin	0.49		0.052	0.0094	ug/L		10/25/13 15:25	10/29/13 18:40	1
4,4'-DDD	0.052	U	0.052	0.0067	ug/L		10/25/13 15:25	10/29/13 18:40	1
4,4'-DDE	0.052	U	0.052	0.0079	ug/L		10/25/13 15:25	10/29/13 18:40	1
4,4'-DDT	0.052	U	0.052	0.010	ug/L		10/25/13 15:25	10/29/13 18:40	1
Endosulfan I	0.052	U	0.052	0.0043	ug/L		10/25/13 15:25	10/29/13 18:40	1
Endosulfan II	0.052	U	0.052	0.010	ug/L		10/25/13 15:25	10/29/13 18:40	1
Endosulfan sulfate	0.052	U	0.052	0.0070	ug/L		10/25/13 15:25	10/29/13 18:40	1
Endrin	0.052	U	0.052	0.010	ug/L		10/25/13 15:25	10/29/13 18:40	1
Endrin aldehyde	0.052	U	0.052	0.017	ug/L		10/25/13 15:25	10/29/13 18:40	1
Endrin ketone	0.33		0.052	0.0087	ug/L		10/25/13 15:25	10/29/13 18:40	1
Heptachlor	0.052	U	0.052	0.0072	ug/L		10/25/13 15:25	10/29/13 18:40	1
Heptachlor epoxide	0.055	p	0.052	0.0062	ug/L		10/25/13 15:25	10/29/13 18:40	1
Methoxychlor	0.052	U	0.052	0.013	ug/L		10/25/13 15:25	10/29/13 18:40	1
Toxaphene	5.2	U	5.2	0.52	ug/L		10/25/13 15:25	10/29/13 18:40	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	72		22 - 130				Prepared	10/25/13 15:25	10/29/13 18:40
Tetrachloro-m-xylene	53		53 - 130					10/25/13 15:25	10/29/13 18:40

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.52	U	0.52	0.072	ug/L		10/25/13 15:25	10/31/13 22:02	10
alpha-BHC	0.077	J D	0.52	0.059	ug/L		10/25/13 15:25	10/31/13 22:02	10
beta-BHC	2.7	D	0.52	0.069	ug/L		10/25/13 15:25	10/31/13 22:02	10
delta-BHC	0.62	D	0.52	0.050	ug/L		10/25/13 15:25	10/31/13 22:02	10
gamma-BHC (Lindane)	0.52	U	0.52	0.061	ug/L		10/25/13 15:25	10/31/13 22:02	10
alpha-Chlordane	0.52	U	0.52	0.062	ug/L		10/25/13 15:25	10/31/13 22:02	10
gamma-Chlordane	0.52	U	0.52	0.053	ug/L		10/25/13 15:25	10/31/13 22:02	10
Dieldrin	0.33	J D	0.52	0.094	ug/L		10/25/13 15:25	10/31/13 22:02	10
4,4'-DDD	0.52	U	0.52	0.067	ug/L		10/25/13 15:25	10/31/13 22:02	10
4,4'-DDE	0.52	U	0.52	0.079	ug/L		10/25/13 15:25	10/31/13 22:02	10
4,4'-DDT	0.52	U	0.52	0.10	ug/L		10/25/13 15:25	10/31/13 22:02	10
Endosulfan I	0.52	U	0.52	0.043	ug/L		10/25/13 15:25	10/31/13 22:02	10
Endosulfan II	0.52	U	0.52	0.10	ug/L		10/25/13 15:25	10/31/13 22:02	10

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

## Client Sample ID: Influent

**Lab Sample ID: 680-95339-1**

Matrix: Water

Date Collected: 10/18/13 14:39

Date Received: 10/19/13 08:41

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.52	U	0.52	0.070	ug/L		10/25/13 15:25	10/31/13 22:02	10
Endrin	0.52	U	0.52	0.10	ug/L		10/25/13 15:25	10/31/13 22:02	10
Endrin aldehyde	0.52	U	0.52	0.17	ug/L		10/25/13 15:25	10/31/13 22:02	10
<b>Endrin ketone</b>	<b>0.28</b>	<b>J D</b>	0.52	0.087	ug/L		10/25/13 15:25	10/31/13 22:02	10
Heptachlor	0.52	U	0.52	0.072	ug/L		10/25/13 15:25	10/31/13 22:02	10
Heptachlor epoxide	0.52	U	0.52	0.062	ug/L		10/25/13 15:25	10/31/13 22:02	10
Methoxychlor	0.52	U	0.52	0.13	ug/L		10/25/13 15:25	10/31/13 22:02	10
Toxaphene	52	U	52	5.2	ug/L		10/25/13 15:25	10/31/13 22:02	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	22 - 130				10/25/13 15:25	10/31/13 22:02	10
Tetrachloro-m-xylene	0	D	53 - 130				10/25/13 15:25	10/31/13 22:02	10

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

## Client Sample ID: Effluent

Lab Sample ID: 680-95339-2

Matrix: Water

Date Collected: 10/18/13 14:28

Date Received: 10/19/13 08:41

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/13 17:17	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	97	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102			70 - 130				10/25/13 17:17	1
Dibromofluoromethane	113			70 - 130				10/25/13 17:17	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0072	ug/L		10/25/13 15:25	10/29/13 19:03	1
alpha-BHC	0.051	U	0.051	0.0058	ug/L		10/25/13 15:25	10/29/13 19:03	1
<b>beta-BHC</b>	<b>0.15</b>	<b>p</b>	0.051	0.0069	ug/L		10/25/13 15:25	10/29/13 19:03	1
<b>delta-BHC</b>	<b>0.037</b>	<b>J</b>	0.051	0.0049	ug/L		10/25/13 15:25	10/29/13 19:03	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0060	ug/L		10/25/13 15:25	10/29/13 19:03	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/25/13 15:25	10/29/13 19:03	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/25/13 15:25	10/29/13 19:03	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		10/25/13 15:25	10/29/13 19:03	1
4,4'-DDD	0.051	U	0.051	0.0067	ug/L		10/25/13 15:25	10/29/13 19:03	1
4,4'-DDE	0.051	U	0.051	0.0079	ug/L		10/25/13 15:25	10/29/13 19:03	1
4,4'-DDT	0.051	U	0.051	0.0099	ug/L		10/25/13 15:25	10/29/13 19:03	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/25/13 15:25	10/29/13 19:03	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		10/25/13 15:25	10/29/13 19:03	1
Endosulfan sulfate	0.051	U	0.051	0.0070	ug/L		10/25/13 15:25	10/29/13 19:03	1
Endrin	0.051	U	0.051	0.0099	ug/L		10/25/13 15:25	10/29/13 19:03	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/25/13 15:25	10/29/13 19:03	1
Endrin ketone	0.051	U	0.051	0.0086	ug/L		10/25/13 15:25	10/29/13 19:03	1
Heptachlor	0.051	U	0.051	0.0072	ug/L		10/25/13 15:25	10/29/13 19:03	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/25/13 15:25	10/29/13 19:03	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/25/13 15:25	10/29/13 19:03	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/25/13 15:25	10/29/13 19:03	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	37	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61			22 - 130			10/25/13 15:25	10/29/13 19:03	1
				53 - 130			10/25/13 15:25	10/29/13 19:03	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

**Client Sample ID: Carbon A-2**

**Lab Sample ID: 680-95339-3**

**Matrix: Water**

Date Collected: 10/18/13 14:21

Date Received: 10/19/13 08:41

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/13 17:38	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	99		70 - 130				Prepared	10/25/13 17:38	1
4-Bromofluorobenzene	102		70 - 130					10/25/13 17:38	1
Dibromofluoromethane	111		70 - 130					10/25/13 17:38	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/25/13 15:25	10/29/13 19:26	1
alpha-BHC	0.048	U	0.048	0.0054	ug/L		10/25/13 15:25	10/29/13 19:26	1
beta-BHC	0.048	U	0.048	0.0064	ug/L		10/25/13 15:25	10/29/13 19:26	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/25/13 15:25	10/29/13 19:26	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		10/25/13 15:25	10/29/13 19:26	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/25/13 15:25	10/29/13 19:26	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/25/13 15:25	10/29/13 19:26	1
Dieldrin	0.048	U	0.048	0.0087	ug/L		10/25/13 15:25	10/29/13 19:26	1
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		10/25/13 15:25	10/29/13 19:26	1
4,4'-DDE	0.048	U	0.048	0.0073	ug/L		10/25/13 15:25	10/29/13 19:26	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/25/13 15:25	10/29/13 19:26	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/25/13 15:25	10/29/13 19:26	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/25/13 15:25	10/29/13 19:26	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/25/13 15:25	10/29/13 19:26	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/25/13 15:25	10/29/13 19:26	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/25/13 15:25	10/29/13 19:26	1
Endrin ketone	0.048	U	0.048	0.0080	ug/L		10/25/13 15:25	10/29/13 19:26	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/25/13 15:25	10/29/13 19:26	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/25/13 15:25	10/29/13 19:26	1
Methoxychlor	0.048	U	0.048	0.012	ug/L		10/25/13 15:25	10/29/13 19:26	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/25/13 15:25	10/29/13 19:26	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	79		22 - 130				Prepared	10/25/13 15:25	1
Tetrachloro-m-xylene	63		53 - 130					10/25/13 15:25	1
							Analyzed	10/29/13 19:26	
							Dil Fac		

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

**Client Sample ID: Carbon B-3**

**Lab Sample ID: 680-95339-4**

**Matrix: Water**

Date Collected: 10/18/13 14:14

Date Received: 10/19/13 08:41

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/13 17:58	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	99		70 - 130				Prepared	10/25/13 17:58	1
4-Bromofluorobenzene	102		70 - 130					10/25/13 17:58	1
Dibromofluoromethane	112		70 - 130					10/25/13 17:58	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/25/13 15:25	10/29/13 19:49	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		10/25/13 15:25	10/29/13 19:49	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/25/13 15:25	10/29/13 19:49	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/25/13 15:25	10/29/13 19:49	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		10/25/13 15:25	10/29/13 19:49	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/25/13 15:25	10/29/13 19:49	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/25/13 15:25	10/29/13 19:49	1
Dieldrin	0.048	U	0.048	0.0088	ug/L		10/25/13 15:25	10/29/13 19:49	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		10/25/13 15:25	10/29/13 19:49	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/25/13 15:25	10/29/13 19:49	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/25/13 15:25	10/29/13 19:49	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/25/13 15:25	10/29/13 19:49	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/25/13 15:25	10/29/13 19:49	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/25/13 15:25	10/29/13 19:49	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/25/13 15:25	10/29/13 19:49	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/25/13 15:25	10/29/13 19:49	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L		10/25/13 15:25	10/29/13 19:49	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/25/13 15:25	10/29/13 19:49	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/25/13 15:25	10/29/13 19:49	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		10/25/13 15:25	10/29/13 19:49	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/25/13 15:25	10/29/13 19:49	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	72		22 - 130				Prepared	10/25/13 15:25	1
Tetrachloro-m-xylene	61		53 - 130					10/25/13 15:25	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 680-95339-5**

**Matrix: Water**

Date Collected: 10/18/13 00:00

Date Received: 10/19/13 08:41

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/13 13:32	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					10/25/13 13:32	1
4-Bromofluorobenzene	103		70 - 130					10/25/13 13:32	1
Dibromofluoromethane	111		70 - 130					10/25/13 13:32	1

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-95339-1

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID:** MB 680-300240/9

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 300240

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/25/13 13:11	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	98		70 - 130				Prepared	10/25/13 13:11	1
4-Bromofluorobenzene	102		70 - 130					10/25/13 13:11	1
Dibromofluoromethane	110		70 - 130					10/25/13 13:11	1

**Lab Sample ID:** LCS 680-300240/4

**Client Sample ID:** Lab Control Sample

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 300240

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
	Added							
Trichloroethene		50.0	49.8		ug/L		100	80 - 120
<b>Surrogate</b>								
Toluene-d8 (Surr)	102		70 - 130					
4-Bromofluorobenzene	101		70 - 130					
Dibromofluoromethane	103		70 - 130					

**Lab Sample ID:** LCSD 680-300240/5

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 300240

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added									
Trichloroethene		50.0	53.1		ug/L		106	80 - 120	7	30
<b>Surrogate</b>										
Toluene-d8 (Surr)	108		70 - 130							
4-Bromofluorobenzene	104		70 - 130							
Dibromofluoromethane	113		70 - 130							

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

**Lab Sample ID:** MB 680-300239/20-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 300702

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	0.050	U	0.050	0.0070	ug/L		10/25/13 15:25	10/29/13 15:58	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/25/13 15:25	10/29/13 15:58	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/25/13 15:25	10/29/13 15:58	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/25/13 15:25	10/29/13 15:58	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/25/13 15:25	10/29/13 15:58	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/25/13 15:25	10/29/13 15:58	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/25/13 15:25	10/29/13 15:58	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/25/13 15:25	10/29/13 15:58	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-95339-1

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: MB 680-300239/20-A**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 300702**

**Prep Batch: 300239**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/25/13 15:25	10/29/13 15:58	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/25/13 15:25	10/29/13 15:58	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/25/13 15:25	10/29/13 15:58	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/25/13 15:25	10/29/13 15:58	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/25/13 15:25	10/29/13 15:58	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/25/13 15:25	10/29/13 15:58	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/25/13 15:25	10/29/13 15:58	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/25/13 15:25	10/29/13 15:58	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		10/25/13 15:25	10/29/13 15:58	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/25/13 15:25	10/29/13 15:58	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/25/13 15:25	10/29/13 15:58	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/25/13 15:25	10/29/13 15:58	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/25/13 15:25	10/29/13 15:58	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	63		22 - 130	10/25/13 15:25	10/29/13 15:58	1			
Tetrachloro-m-xylene	69		53 - 130	10/25/13 15:25	10/29/13 15:58	1			

**Lab Sample ID: LCS 680-300239/21-A**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 300702**

**Prep Batch: 300239**

Analyte	Spike	LCS	LCS	%Rec.					
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Aldrin	0.100	0.0723		ug/L	72	14 - 168			
alpha-BHC	0.100	0.0825		ug/L	83	43 - 138			
beta-BHC	0.100	0.0758	p	ug/L	76	38 - 158			
delta-BHC	0.100	0.0869		ug/L	87	23 - 191			
gamma-BHC (Lindane)	0.100	0.0857		ug/L	86	54 - 134			
alpha-Chlordane	0.100	0.0770		ug/L	77	60 - 130			
gamma-Chlordane	0.100	0.0759		ug/L	76	50 - 145			
Dieldrin	0.100	0.0788		ug/L	79	61 - 136			
4,4'-DDD	0.100	0.0821		ug/L	82	49 - 144			
4,4'-DDE	0.100	0.0736		ug/L	74	46 - 144			
4,4'-DDT	0.100	0.0775		ug/L	77	48 - 166			
Endosulfan I	0.100	0.0633		ug/L	63	52 - 141			
Endosulfan II	0.100	0.0717		ug/L	72	60 - 140			
Endosulfan sulfate	0.100	0.0838		ug/L	84	60 - 151			
Endrin	0.100	0.0729		ug/L	73	66 - 150			
Endrin aldehyde	0.100	0.0782		ug/L	78	16 - 200			
Endrin ketone	0.100	0.0929		ug/L	93	55 - 156			
Heptachlor	0.100	0.0747		ug/L	75	10 - 200			
Heptachlor epoxide	0.100	0.0772		ug/L	77	49 - 142			
Methoxychlor	0.100	0.0813		ug/L	81	13 - 186			
Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	58		22 - 130						

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

TestAmerica Job ID: 680-95339-1

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

## **Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)**

**Lab Sample ID: LCS 680-300239/21-A**

**Matrix: Water**

**Analysis Batch: 300702**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 300239**

<b>Surrogate</b>	<b>LCS</b>	<b>LCS</b>	
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
Tetrachloro-m-xylene	68		53 - 130

**Lab Sample ID: LCSD 680-300239/22-A**

**Matrix: Water**

**Analysis Batch: 300702**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 300239**

<b>Analyte</b>		<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>	<b>RPD</b>	<b>RPD</b>	<b>Limit</b>
		<b>Added</b>	<b>Result</b>	<b>Qualifier</b>							
Aldrin		0.100	0.0715		ug/L		72	14 - 168	1	50	
alpha-BHC		0.100	0.0780		ug/L		78	43 - 138	6	50	
beta-BHC		0.100	0.114		ug/L		114	38 - 158	40	50	
delta-BHC		0.100	0.0890		ug/L		89	23 - 191	2	50	
gamma-BHC (Lindane)		0.100	0.0782		ug/L		78	54 - 134	9	50	
alpha-Chlordane		0.100	0.0771		ug/L		77	60 - 130	0	50	
gamma-Chlordane		0.100	0.0769		ug/L		77	50 - 145	1	50	
Dieldrin		0.100	0.0792		ug/L		79	61 - 136	1	50	
4,4'-DDD		0.100	0.0830		ug/L		83	49 - 144	1	50	
4,4'-DDE		0.100	0.0722		ug/L		72	46 - 144	2	50	
4,4'-DDT		0.100	0.0798		ug/L		80	48 - 166	3	50	
Endosulfan I		0.100	0.0666		ug/L		67	52 - 141	5	50	
Endosulfan II		0.100	0.0746		ug/L		75	60 - 140	4	50	
Endosulfan sulfate		0.100	0.0905		ug/L		90	60 - 151	8	50	
Endrin		0.100	0.0802		ug/L		80	66 - 150	10	50	
Endrin aldehyde		0.100	0.0840		ug/L		84	16 - 200	7	50	
Endrin ketone		0.100	0.0941		ug/L		94	55 - 156	1	50	
Heptachlor		0.100	0.0697		ug/L		70	10 - 200	7	50	
Heptachlor epoxide		0.100	0.0773		ug/L		77	49 - 142	0	50	
Methoxychlor		0.100	0.0881		ug/L		88	13 - 186	8	50	

<b>Surrogate</b>	<b>LCSD</b>	<b>LCSD</b>	
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
DCB Decachlorobiphenyl	58		22 - 130
Tetrachloro-m-xylene	67		53 - 130

TestAmerica Savannah

# QC Association Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

## GC/MS VOA

### Analysis Batch: 300240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95339-1	Influent	Total/NA	Water	8260B	
680-95339-2	Effluent	Total/NA	Water	8260B	
680-95339-3	Carbon A-2	Total/NA	Water	8260B	
680-95339-4	Carbon B-3	Total/NA	Water	8260B	
680-95339-5	Trip Blank	Total/NA	Water	8260B	
LCS 680-300240/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-300240/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-300240/9	Method Blank	Total/NA	Water	8260B	

## GC Semi VOA

### Prep Batch: 300239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95339-1	Influent	Total/NA	Water	3520C	
680-95339-1 - DL	Influent	Total/NA	Water	3520C	
680-95339-2	Effluent	Total/NA	Water	3520C	
680-95339-3	Carbon A-2	Total/NA	Water	3520C	
680-95339-4	Carbon B-3	Total/NA	Water	3520C	
LCS 680-300239/21-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-300239/22-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-300239/20-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 300702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95339-1	Influent	Total/NA	Water	8081B/8082A	300239
680-95339-2	Effluent	Total/NA	Water	8081B/8082A	300239
680-95339-3	Carbon A-2	Total/NA	Water	8081B/8082A	300239
680-95339-4	Carbon B-3	Total/NA	Water	8081B/8082A	300239
LCS 680-300239/21-A	Lab Control Sample	Total/NA	Water	8081B/8082A	300239
LCSD 680-300239/22-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	300239
MB 680-300239/20-A	Method Blank	Total/NA	Water	8081B/8082A	300239

### Analysis Batch: 301101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95339-1 - DL	Influent	Total/NA	Water	8081B/8082A	300239

# Lab Chronicle

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

## Client Sample ID: Influent

Date Collected: 10/18/13 14:39

Date Received: 10/19/13 08:41

Lab Sample ID: 680-95339-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300240	10/25/13 16:57	JD1	TAL SAV
Total/NA	Prep	3520C			300239	10/25/13 15:25	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300702	10/29/13 18:40	JCK	TAL SAV
Total/NA	Prep	3520C	DL		300239	10/25/13 15:25	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	301101	10/31/13 22:02	JCK	TAL SAV

## Client Sample ID: Effluent

Date Collected: 10/18/13 14:28

Date Received: 10/19/13 08:41

Lab Sample ID: 680-95339-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300240	10/25/13 17:17	JD1	TAL SAV
Total/NA	Prep	3520C			300239	10/25/13 15:25	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300702	10/29/13 19:03	JCK	TAL SAV

## Client Sample ID: Carbon A-2

Date Collected: 10/18/13 14:21

Date Received: 10/19/13 08:41

Lab Sample ID: 680-95339-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300240	10/25/13 17:38	JD1	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300702	10/29/13 19:26	JCK	TAL SAV
Total/NA	Prep	3520C			300239	10/25/13 15:25	RBS	TAL SAV

## Client Sample ID: Carbon B-3

Date Collected: 10/18/13 14:14

Date Received: 10/19/13 08:41

Lab Sample ID: 680-95339-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300240	10/25/13 17:58	JD1	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300702	10/29/13 19:49	JCK	TAL SAV
Total/NA	Prep	3520C			300239	10/25/13 15:25	RBS	TAL SAV

## Client Sample ID: Trip Blank

Date Collected: 10/18/13 00:00

Date Received: 10/19/13 08:41

Lab Sample ID: 680-95339-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	300240	10/25/13 13:32	JD1	TAL SAV

### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

## Certification Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp. - 4Q13 / OCT 2013

TestAmerica Job ID: 680-95339-1

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13 *
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13 *
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

ANALISIS DE LOS TESTAMÉNTOS EN ESTADOS UNIDOS AMERICANOS

**ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD**

74907

Serial Number

Website: [www.testamericainc.com](http://www.testamericainc.com)  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternatives |aboratory| Name of location

THE LEADER IN ENVIRONMENTAL TESTING

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## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-95339-1

**Login Number: 95339**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Contreras, Cesar A**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue  
Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-95150-1

Client Project/Site: Geigy Chemical Corp./Olin

For:

Kleinfelder Inc  
313 Gallimore Dairy Road  
Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay



Authorized for release by:

10/29/2013 4:10:29 PM

Michele Kersey, Project Manager I

(912)354-7858

[michele.kersey@testamericainc.com](mailto:michele.kersey@testamericainc.com)

### LINKS

Review your project  
results through

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The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## Case Narrative

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Job ID: 680-95150-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Kleinfelder Inc**

**Project: Geigy Chemical Corp./Olin**

**Report Number: 680-95150-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 10/15/2013 9:14 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.4° C, 0.8° C and 0.8° C.

#### **PESTICIDES AND PCBs**

Samples SW-01 (680-95150-1), SW-02 (680-95150-2), SW-03 (680-95150-3), SW-04 (680-95150-4), SW-05 (680-95150-5), SW-06 (680-95150-6), SW-07 (680-95150-7), SW-08 (680-95150-8), SW-09 (680-95150-9), SW-11-2 (680-95150-10) and Dup 1 (680-95150-11) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B\_8082A. The samples were prepared on 10/18/2013 and 10/23/2013 and analyzed on 10/21/2013, 10/22/2013 and 10/25/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Two surrogates are used for this analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: SW-07 (680-95150-7). These results have been reported and qualified.

Surrogate recovery for the following sample(s) was outside control limits: SW-01 (680-95150-1). Re-extraction and/or re-analysis was performed outside of hold time with acceptable results.

No other difficulties were encountered during the Pesticides and PCBs analysis.

All other quality control parameters were within the acceptance limits.

#### **TOTAL SUSPENDED SOLIDS**

Samples SW-01 (680-95150-1), SW-02 (680-95150-2), SW-03 (680-95150-3), SW-04 (680-95150-4), SW-05 (680-95150-5), SW-06 (680-95150-6), SW-07 (680-95150-7), SW-08 (680-95150-8), SW-09 (680-95150-9), SW-11-2 (680-95150-10) and Dup 1 (680-95150-11) were analyzed for total suspended solids in accordance with EPA Method 160.2. The samples were analyzed on 10/17/2013.

No difficulties were encountered during the TSS analysis.

All quality control parameters were within the acceptance limits.

## Sample Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-95150-1	SW-01	Water	10/14/13 12:53	10/15/13 09:14
680-95150-2	SW-02	Water	10/14/13 12:35	10/15/13 09:14
680-95150-3	SW-03	Water	10/14/13 13:18	10/15/13 09:14
680-95150-4	SW-04	Water	10/14/13 12:10	10/15/13 09:14
680-95150-5	SW-05	Water	10/14/13 11:30	10/15/13 09:14
680-95150-6	SW-06	Water	10/14/13 11:03	10/15/13 09:14
680-95150-7	SW-07	Water	10/14/13 10:51	10/15/13 09:14
680-95150-8	SW-08	Water	10/14/13 10:33	10/15/13 09:14
680-95150-9	SW-09	Water	10/14/13 10:21	10/15/13 09:14
680-95150-10	SW-11-2	Water	10/14/13 11:16	10/15/13 09:14
680-95150-11	Dup 1	Water	10/14/13 13:20	10/15/13 09:14

## Method Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
160.2	Solids, Total Suspended (TSS)	MCAWW	TAL SAV

### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Definitions/Glossary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
H	Sample was prepped or analyzed beyond the specified holding time
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

### General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

### Abbreviation

These commonly used abbreviations may or may not be present in this report.

dw	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-01**

**Lab Sample ID: 680-95150-1**

Date Collected: 10/14/13 12:53

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/21/13 23:41	1
alpha-BHC	0.049	U	0.049	0.0055	ug/L		10/18/13 15:02	10/21/13 23:41	1
<b>beta-BHC</b>	<b>0.017</b>	<b>J p</b>	0.049	0.0065	ug/L		10/18/13 15:02	10/21/13 23:41	1
<b>delta-BHC</b>	<b>0.0083</b>	<b>J p</b>	0.049	0.0047	ug/L		10/18/13 15:02	10/21/13 23:41	1
<b>gamma-BHC (Lindane)</b>	<b>0.0075</b>	<b>J</b>	0.049	0.0057	ug/L		10/18/13 15:02	10/21/13 23:41	1
alpha-Chlordane	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/21/13 23:41	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/13 15:02	10/21/13 23:41	1
Dieldrin	0.049	U	0.049	0.0088	ug/L		10/18/13 15:02	10/21/13 23:41	1
<b>4,4'-DDD</b>	<b>0.017</b>	<b>J</b>	0.049	0.0063	ug/L		10/18/13 15:02	10/21/13 23:41	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/18/13 15:02	10/21/13 23:41	1
4,4'-DDT	0.049	U	0.049	0.0094	ug/L		10/18/13 15:02	10/21/13 23:41	1
<b>Endosulfan I</b>	<b>0.0081</b>	<b>J p</b>	0.049	0.0041	ug/L		10/18/13 15:02	10/21/13 23:41	1
Endosulfan II	0.049	U	0.049	0.0095	ug/L		10/18/13 15:02	10/21/13 23:41	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/18/13 15:02	10/21/13 23:41	1
Endrin	0.049	U	0.049	0.0094	ug/L		10/18/13 15:02	10/21/13 23:41	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/18/13 15:02	10/21/13 23:41	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		10/18/13 15:02	10/21/13 23:41	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/21/13 23:41	1
Heptachlor epoxide	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/21/13 23:41	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/18/13 15:02	10/21/13 23:41	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/13 15:02	10/21/13 23:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	15	X	22 - 130				10/18/13 15:02	10/21/13 23:41	1
Tetrachloro-m-xylene	41	X	53 - 130				10/18/13 15:02	10/21/13 23:41	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U H	0.049	0.0069	ug/L		10/23/13 15:34	10/25/13 05:26	1
alpha-BHC	0.049	U H	0.049	0.0056	ug/L		10/23/13 15:34	10/25/13 05:26	1
<b>beta-BHC</b>	<b>0.019</b>	<b>J H D</b>	0.049	0.0066	ug/L		10/23/13 15:34	10/25/13 05:26	1
<b>delta-BHC</b>	<b>0.0078</b>	<b>J H D</b>	0.049	0.0047	ug/L		10/23/13 15:34	10/25/13 05:26	1
gamma-BHC (Lindane)	0.049	U H	0.049	0.0058	ug/L		10/23/13 15:34	10/25/13 05:26	1
alpha-Chlordane	0.049	U H	0.049	0.0059	ug/L		10/23/13 15:34	10/25/13 05:26	1
gamma-Chlordane	0.049	U H	0.049	0.0050	ug/L		10/23/13 15:34	10/25/13 05:26	1
Dieldrin	0.049	U H	0.049	0.0090	ug/L		10/23/13 15:34	10/25/13 05:26	1
<b>4,4'-DDD</b>	<b>0.0085</b>	<b>J H D</b>	0.049	0.0064	ug/L		10/23/13 15:34	10/25/13 05:26	1
4,4'-DDE	0.049	U H	0.049	0.0076	ug/L		10/23/13 15:34	10/25/13 05:26	1
4,4'-DDT	0.049	U H	0.049	0.0096	ug/L		10/23/13 15:34	10/25/13 05:26	1
Endosulfan I	0.049	U H	0.049	0.0041	ug/L		10/23/13 15:34	10/25/13 05:26	1
Endosulfan II	0.049	U H	0.049	0.0097	ug/L		10/23/13 15:34	10/25/13 05:26	1
Endosulfan sulfate	0.049	U H	0.049	0.0067	ug/L		10/23/13 15:34	10/25/13 05:26	1
Endrin	0.049	U H	0.049	0.0096	ug/L		10/23/13 15:34	10/25/13 05:26	1
Endrin aldehyde	0.049	U H	0.049	0.016	ug/L		10/23/13 15:34	10/25/13 05:26	1
Endrin ketone	0.049	U H	0.049	0.0083	ug/L		10/23/13 15:34	10/25/13 05:26	1
Heptachlor	0.049	U H	0.049	0.0069	ug/L		10/23/13 15:34	10/25/13 05:26	1
Heptachlor epoxide	0.049	U H	0.049	0.0059	ug/L		10/23/13 15:34	10/25/13 05:26	1
Methoxychlor	0.049	U H	0.049	0.013	ug/L		10/23/13 15:34	10/25/13 05:26	1
Toxaphene	4.9	U H	4.9	0.49	ug/L		10/23/13 15:34	10/25/13 05:26	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-01**

Date Collected: 10/14/13 12:53

Date Received: 10/15/13 09:14

**Lab Sample ID: 680-95150-1**

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	22		22 - 130	10/23/13 15:34	10/25/13 05:26	1
Tetrachloro-m-xylene	54		53 - 130	10/23/13 15:34	10/25/13 05:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	120		7.2	7.2	mg/L	D		10/17/13 14:38	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-02**

**Lab Sample ID: 680-95150-2**

**Matrix: Water**

Date Collected: 10/14/13 12:35

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/18/13 15:02	10/22/13 00:03	1
<b>alpha-BHC</b>	<b>0.0073</b>	<b>J p</b>	0.049	0.0056	ug/L		10/18/13 15:02	10/22/13 00:03	1
<b>beta-BHC</b>	<b>0.023</b>	<b>J</b>	0.049	0.0066	ug/L		10/18/13 15:02	10/22/13 00:03	1
<b>delta-BHC</b>	<b>0.021</b>	<b>J</b>	0.049	0.0047	ug/L		10/18/13 15:02	10/22/13 00:03	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/22/13 00:03	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 00:03	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/13 15:02	10/22/13 00:03	1
Dieldrin	0.049	U	0.049	0.0090	ug/L		10/18/13 15:02	10/22/13 00:03	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		10/18/13 15:02	10/22/13 00:03	1
4,4'-DDE	0.049	U	0.049	0.0076	ug/L		10/18/13 15:02	10/22/13 00:03	1
4,4'-DDT	0.049	U	0.049	0.0096	ug/L		10/18/13 15:02	10/22/13 00:03	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/13 15:02	10/22/13 00:03	1
Endosulfan II	0.049	U	0.049	0.0097	ug/L		10/18/13 15:02	10/22/13 00:03	1
Endosulfan sulfate	0.049	U	0.049	0.0067	ug/L		10/18/13 15:02	10/22/13 00:03	1
Endrin	0.049	U	0.049	0.0096	ug/L		10/18/13 15:02	10/22/13 00:03	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/18/13 15:02	10/22/13 00:03	1
Endrin ketone	0.049	U	0.049	0.0083	ug/L		10/18/13 15:02	10/22/13 00:03	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/18/13 15:02	10/22/13 00:03	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 00:03	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/18/13 15:02	10/22/13 00:03	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/13 15:02	10/22/13 00:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	22		22 - 130				10/18/13 15:02	10/22/13 00:03	1
Tetrachloro-m-xylene	64		53 - 130				10/18/13 15:02	10/22/13 00:03	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:39	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-03**

**Lab Sample ID: 680-95150-3**

Date Collected: 10/14/13 13:18

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/22/13 00:26	1
<b>alpha-BHC</b>	<b>0.015</b>	<b>J</b>	0.049	0.0056	ug/L		10/18/13 15:02	10/22/13 00:26	1
<b>beta-BHC</b>	<b>0.041</b>	<b>J</b>	0.049	0.0065	ug/L		10/18/13 15:02	10/22/13 00:26	1
<b>delta-BHC</b>	<b>0.036</b>	<b>J</b>	0.049	0.0047	ug/L		10/18/13 15:02	10/22/13 00:26	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/22/13 00:26	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 00:26	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/13 15:02	10/22/13 00:26	1
Dieldrin	0.049	U	0.049	0.0089	ug/L		10/18/13 15:02	10/22/13 00:26	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		10/18/13 15:02	10/22/13 00:26	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/18/13 15:02	10/22/13 00:26	1
4,4'-DDT	0.049	U	0.049	0.0095	ug/L		10/18/13 15:02	10/22/13 00:26	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/13 15:02	10/22/13 00:26	1
Endosulfan II	0.049	U	0.049	0.0096	ug/L		10/18/13 15:02	10/22/13 00:26	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/18/13 15:02	10/22/13 00:26	1
Endrin	0.049	U	0.049	0.0095	ug/L		10/18/13 15:02	10/22/13 00:26	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/18/13 15:02	10/22/13 00:26	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		10/18/13 15:02	10/22/13 00:26	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/22/13 00:26	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 00:26	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/18/13 15:02	10/22/13 00:26	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/13 15:02	10/22/13 00:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	28		22 - 130				10/18/13 15:02	10/22/13 00:26	1
Tetrachloro-m-xylene	59		53 - 130				10/18/13 15:02	10/22/13 00:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:40	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-04**

**Lab Sample ID: 680-95150-4**

**Matrix: Water**

Date Collected: 10/14/13 12:10

Date Received: 10/15/13 09:14

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/18/13 15:02	10/22/13 00:49	1
<b>alpha-BHC</b>	<b>0.0062</b>	<b>J p</b>	0.051	0.0058	ug/L		10/18/13 15:02	10/22/13 00:49	1
<b>beta-BHC</b>	<b>0.019</b>	<b>J p</b>	0.051	0.0068	ug/L		10/18/13 15:02	10/22/13 00:49	1
<b>delta-BHC</b>	<b>0.012</b>	<b>J</b>	0.051	0.0049	ug/L		10/18/13 15:02	10/22/13 00:49	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0060	ug/L		10/18/13 15:02	10/22/13 00:49	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/18/13 15:02	10/22/13 00:49	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/18/13 15:02	10/22/13 00:49	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		10/18/13 15:02	10/22/13 00:49	1
4,4'-DDD	0.051	U	0.051	0.0066	ug/L		10/18/13 15:02	10/22/13 00:49	1
4,4'-DDE	0.051	U	0.051	0.0078	ug/L		10/18/13 15:02	10/22/13 00:49	1
4,4'-DDT	0.051	U	0.051	0.0099	ug/L		10/18/13 15:02	10/22/13 00:49	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/18/13 15:02	10/22/13 00:49	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		10/18/13 15:02	10/22/13 00:49	1
Endosulfan sulfate	0.051	U	0.051	0.0069	ug/L		10/18/13 15:02	10/22/13 00:49	1
Endrin	0.051	U	0.051	0.0099	ug/L		10/18/13 15:02	10/22/13 00:49	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/18/13 15:02	10/22/13 00:49	1
Endrin ketone	0.051	U	0.051	0.0086	ug/L		10/18/13 15:02	10/22/13 00:49	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/18/13 15:02	10/22/13 00:49	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/18/13 15:02	10/22/13 00:49	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/18/13 15:02	10/22/13 00:49	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/18/13 15:02	10/22/13 00:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	24		22 - 130				10/18/13 15:02	10/22/13 00:49	1
Tetrachloro-m-xylene	72		53 - 130				10/18/13 15:02	10/22/13 00:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:41	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-05**

**Lab Sample ID: 680-95150-5**

Date Collected: 10/14/13 11:30

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/22/13 01:11	1
<b>alpha-BHC</b>	<b>0.0097</b>	<b>J</b>	0.049	0.0056	ug/L		10/18/13 15:02	10/22/13 01:11	1
<b>beta-BHC</b>	<b>0.014</b>	<b>J</b>	0.049	0.0065	ug/L		10/18/13 15:02	10/22/13 01:11	1
<b>delta-BHC</b>	<b>0.013</b>	<b>J</b>	0.049	0.0047	ug/L		10/18/13 15:02	10/22/13 01:11	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/22/13 01:11	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 01:11	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/13 15:02	10/22/13 01:11	1
Dieldrin	0.049	U	0.049	0.0089	ug/L		10/18/13 15:02	10/22/13 01:11	1
<b>4,4'-DDD</b>	<b>0.0077</b>	<b>J</b>	0.049	0.0064	ug/L		10/18/13 15:02	10/22/13 01:11	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/18/13 15:02	10/22/13 01:11	1
4,4'-DDT	0.049	U	0.049	0.0095	ug/L		10/18/13 15:02	10/22/13 01:11	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/13 15:02	10/22/13 01:11	1
Endosulfan II	0.049	U	0.049	0.0096	ug/L		10/18/13 15:02	10/22/13 01:11	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/18/13 15:02	10/22/13 01:11	1
Endrin	0.049	U	0.049	0.0095	ug/L		10/18/13 15:02	10/22/13 01:11	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/18/13 15:02	10/22/13 01:11	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		10/18/13 15:02	10/22/13 01:11	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/22/13 01:11	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 01:11	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/18/13 15:02	10/22/13 01:11	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/13 15:02	10/22/13 01:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	28		22 - 130				10/18/13 15:02	10/22/13 01:11	1
Tetrachloro-m-xylene	69		53 - 130				10/18/13 15:02	10/22/13 01:11	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	10		5.0	5.0	mg/L			10/17/13 14:42	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-06**

**Lab Sample ID: 680-95150-6**

Date Collected: 10/14/13 11:03

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/18/13 15:02	10/22/13 01:34	1
<b>alpha-BHC</b>	<b>0.0058</b>	<b>J p</b>	0.048	0.0054	ug/L		10/18/13 15:02	10/22/13 01:34	1
<b>beta-BHC</b>	<b>0.013</b>	<b>J</b>	0.048	0.0064	ug/L		10/18/13 15:02	10/22/13 01:34	1
<b>delta-BHC</b>	<b>0.012</b>	<b>J</b>	0.048	0.0046	ug/L		10/18/13 15:02	10/22/13 01:34	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		10/18/13 15:02	10/22/13 01:34	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/18/13 15:02	10/22/13 01:34	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/18/13 15:02	10/22/13 01:34	1
Dieldrin	0.048	U	0.048	0.0087	ug/L		10/18/13 15:02	10/22/13 01:34	1
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		10/18/13 15:02	10/22/13 01:34	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/18/13 15:02	10/22/13 01:34	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/18/13 15:02	10/22/13 01:34	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/18/13 15:02	10/22/13 01:34	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/18/13 15:02	10/22/13 01:34	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/18/13 15:02	10/22/13 01:34	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/18/13 15:02	10/22/13 01:34	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/18/13 15:02	10/22/13 01:34	1
Endrin ketone	0.048	U	0.048	0.0080	ug/L		10/18/13 15:02	10/22/13 01:34	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/18/13 15:02	10/22/13 01:34	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/18/13 15:02	10/22/13 01:34	1
Methoxychlor	0.048	U	0.048	0.012	ug/L		10/18/13 15:02	10/22/13 01:34	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/18/13 15:02	10/22/13 01:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	27		22 - 130				10/18/13 15:02	10/22/13 01:34	1
Tetrachloro-m-xylene	68		53 - 130				10/18/13 15:02	10/22/13 01:34	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:43	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-07**

**Lab Sample ID: 680-95150-7**

Date Collected: 10/14/13 10:51

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/22/13 01:57	1
alpha-BHC	0.049	U	0.049	0.0055	ug/L		10/18/13 15:02	10/22/13 01:57	1
<b>beta-BHC</b>	<b>0.015</b>	<b>J</b>	0.049	0.0065	ug/L		10/18/13 15:02	10/22/13 01:57	1
<b>delta-BHC</b>	<b>0.0091</b>	<b>J</b>	0.049	0.0047	ug/L		10/18/13 15:02	10/22/13 01:57	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0057	ug/L		10/18/13 15:02	10/22/13 01:57	1
alpha-Chlordane	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/22/13 01:57	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/13 15:02	10/22/13 01:57	1
Dieldrin	0.049	U	0.049	0.0088	ug/L		10/18/13 15:02	10/22/13 01:57	1
4,4'-DDD	0.049	U	0.049	0.0063	ug/L		10/18/13 15:02	10/22/13 01:57	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/18/13 15:02	10/22/13 01:57	1
4,4'-DDT	0.049	U	0.049	0.0094	ug/L		10/18/13 15:02	10/22/13 01:57	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/13 15:02	10/22/13 01:57	1
Endosulfan II	0.049	U	0.049	0.0095	ug/L		10/18/13 15:02	10/22/13 01:57	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/18/13 15:02	10/22/13 01:57	1
Endrin	0.049	U	0.049	0.0094	ug/L		10/18/13 15:02	10/22/13 01:57	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/18/13 15:02	10/22/13 01:57	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		10/18/13 15:02	10/22/13 01:57	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/18/13 15:02	10/22/13 01:57	1
Heptachlor epoxide	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/22/13 01:57	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/18/13 15:02	10/22/13 01:57	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/13 15:02	10/22/13 01:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	23		22 - 130				10/18/13 15:02	10/22/13 01:57	1
Tetrachloro-m-xylene	13	X	53 - 130				10/18/13 15:02	10/22/13 01:57	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:45	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-08**

**Lab Sample ID: 680-95150-8**

Date Collected: 10/14/13 10:33

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/18/13 15:02	10/22/13 02:19	1
<b>alpha-BHC</b>	<b>0.011</b>	<b>J</b>	0.049	0.0056	ug/L		10/18/13 15:02	10/22/13 02:19	1
<b>beta-BHC</b>	<b>0.017</b>	<b>J</b>	0.049	0.0066	ug/L		10/18/13 15:02	10/22/13 02:19	1
<b>delta-BHC</b>	<b>0.0083</b>	<b>J p</b>	0.049	0.0047	ug/L		10/18/13 15:02	10/22/13 02:19	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/18/13 15:02	10/22/13 02:19	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 02:19	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/18/13 15:02	10/22/13 02:19	1
Dieldrin	0.049	U	0.049	0.0090	ug/L		10/18/13 15:02	10/22/13 02:19	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		10/18/13 15:02	10/22/13 02:19	1
4,4'-DDE	0.049	U	0.049	0.0076	ug/L		10/18/13 15:02	10/22/13 02:19	1
4,4'-DDT	0.049	U	0.049	0.0096	ug/L		10/18/13 15:02	10/22/13 02:19	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/18/13 15:02	10/22/13 02:19	1
Endosulfan II	0.049	U	0.049	0.0097	ug/L		10/18/13 15:02	10/22/13 02:19	1
Endosulfan sulfate	0.049	U	0.049	0.0067	ug/L		10/18/13 15:02	10/22/13 02:19	1
Endrin	0.049	U	0.049	0.0096	ug/L		10/18/13 15:02	10/22/13 02:19	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/18/13 15:02	10/22/13 02:19	1
Endrin ketone	0.049	U	0.049	0.0083	ug/L		10/18/13 15:02	10/22/13 02:19	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/18/13 15:02	10/22/13 02:19	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/18/13 15:02	10/22/13 02:19	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/18/13 15:02	10/22/13 02:19	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/18/13 15:02	10/22/13 02:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	29		22 - 130				10/18/13 15:02	10/22/13 02:19	1
Tetrachloro-m-xylene	63		53 - 130				10/18/13 15:02	10/22/13 02:19	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:46	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-09**

**Lab Sample ID: 680-95150-9**

Date Collected: 10/14/13 10:21

Matrix: Water

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0069	ug/L		10/18/13 15:02	10/22/13 02:42	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/18/13 15:02	10/22/13 02:42	1
beta-BHC	0.050	U	0.050	0.0066	ug/L		10/18/13 15:02	10/22/13 02:42	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/18/13 15:02	10/22/13 02:42	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/18/13 15:02	10/22/13 02:42	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/18/13 15:02	10/22/13 02:42	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/18/13 15:02	10/22/13 02:42	1
Dieldrin	0.050	U	0.050	0.0090	ug/L		10/18/13 15:02	10/22/13 02:42	1
4,4'-DDD	0.050	U	0.050	0.0064	ug/L		10/18/13 15:02	10/22/13 02:42	1
4,4'-DDE	0.050	U	0.050	0.0076	ug/L		10/18/13 15:02	10/22/13 02:42	1
4,4'-DDT	0.050	U	0.050	0.0096	ug/L		10/18/13 15:02	10/22/13 02:42	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/18/13 15:02	10/22/13 02:42	1
Endosulfan II	0.050	U	0.050	0.0097	ug/L		10/18/13 15:02	10/22/13 02:42	1
Endosulfan sulfate	0.050	U	0.050	0.0067	ug/L		10/18/13 15:02	10/22/13 02:42	1
Endrin	0.050	U	0.050	0.0096	ug/L		10/18/13 15:02	10/22/13 02:42	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/18/13 15:02	10/22/13 02:42	1
Endrin ketone	0.050	U	0.050	0.0083	ug/L		10/18/13 15:02	10/22/13 02:42	1
Heptachlor	0.050	U	0.050	0.0069	ug/L		10/18/13 15:02	10/22/13 02:42	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/18/13 15:02	10/22/13 02:42	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/18/13 15:02	10/22/13 02:42	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/18/13 15:02	10/22/13 02:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	24		22 - 130				10/18/13 15:02	10/22/13 02:42	1
Tetrachloro-m-xylene	59		53 - 130				10/18/13 15:02	10/22/13 02:42	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:47	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-11-2**

**Lab Sample ID: 680-95150-10**

**Matrix: Water**

Date Collected: 10/14/13 11:16

Date Received: 10/15/13 09:14

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/18/13 15:02	10/22/13 03:05	1
<b>alpha-BHC</b>	<b>0.010</b>	<b>J</b>	0.050	0.0057	ug/L		10/18/13 15:02	10/22/13 03:05	1
<b>beta-BHC</b>	<b>0.012</b>	<b>J p</b>	0.050	0.0067	ug/L		10/18/13 15:02	10/22/13 03:05	1
<b>delta-BHC</b>	<b>0.013</b>	<b>J</b>	0.050	0.0048	ug/L		10/18/13 15:02	10/22/13 03:05	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/18/13 15:02	10/22/13 03:05	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/18/13 15:02	10/22/13 03:05	1
<b>gamma-Chlordane</b>	<b>0.0064</b>	<b>J p</b>	0.050	0.0051	ug/L		10/18/13 15:02	10/22/13 03:05	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/18/13 15:02	10/22/13 03:05	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/18/13 15:02	10/22/13 03:05	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/18/13 15:02	10/22/13 03:05	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/18/13 15:02	10/22/13 03:05	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/18/13 15:02	10/22/13 03:05	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/18/13 15:02	10/22/13 03:05	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/18/13 15:02	10/22/13 03:05	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/18/13 15:02	10/22/13 03:05	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/18/13 15:02	10/22/13 03:05	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		10/18/13 15:02	10/22/13 03:05	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/18/13 15:02	10/22/13 03:05	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/18/13 15:02	10/22/13 03:05	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/18/13 15:02	10/22/13 03:05	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/18/13 15:02	10/22/13 03:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	28		22 - 130				10/18/13 15:02	10/22/13 03:05	1
Tetrachloro-m-xylene	69		53 - 130				10/18/13 15:02	10/22/13 03:05	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:47	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Client Sample ID: Dup 1

Date Collected: 10/14/13 13:20

Date Received: 10/15/13 09:14

## Lab Sample ID: 680-95150-11

Matrix: Water

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/18/13 15:02	10/22/13 03:27	1
<b>alpha-BHC</b>	<b>0.016</b>	<b>J</b>	0.051	0.0058	ug/L		10/18/13 15:02	10/22/13 03:27	1
<b>beta-BHC</b>	<b>0.041</b>	<b>J</b>	0.051	0.0068	ug/L		10/18/13 15:02	10/22/13 03:27	1
<b>delta-BHC</b>	<b>0.035</b>	<b>J</b>	0.051	0.0049	ug/L		10/18/13 15:02	10/22/13 03:27	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0060	ug/L		10/18/13 15:02	10/22/13 03:27	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/18/13 15:02	10/22/13 03:27	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/18/13 15:02	10/22/13 03:27	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		10/18/13 15:02	10/22/13 03:27	1
4,4'-DDD	0.051	U	0.051	0.0066	ug/L		10/18/13 15:02	10/22/13 03:27	1
4,4'-DDE	0.051	U	0.051	0.0078	ug/L		10/18/13 15:02	10/22/13 03:27	1
4,4'-DDT	0.051	U	0.051	0.0099	ug/L		10/18/13 15:02	10/22/13 03:27	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/18/13 15:02	10/22/13 03:27	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		10/18/13 15:02	10/22/13 03:27	1
Endosulfan sulfate	0.051	U	0.051	0.0069	ug/L		10/18/13 15:02	10/22/13 03:27	1
Endrin	0.051	U	0.051	0.0099	ug/L		10/18/13 15:02	10/22/13 03:27	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/18/13 15:02	10/22/13 03:27	1
Endrin ketone	0.051	U	0.051	0.0085	ug/L		10/18/13 15:02	10/22/13 03:27	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/18/13 15:02	10/22/13 03:27	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/18/13 15:02	10/22/13 03:27	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/18/13 15:02	10/22/13 03:27	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/18/13 15:02	10/22/13 03:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	32		22 - 130				10/18/13 15:02	10/22/13 03:27	1
Tetrachloro-m-xylene	59		53 - 130				10/18/13 15:02	10/22/13 03:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.0	U	5.0	5.0	mg/L			10/17/13 14:49	1

# QC Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-299070/12-A

Matrix: Water

Analysis Batch: 299552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 299070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/18/13 15:02	10/21/13 21:47	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/18/13 15:02	10/21/13 21:47	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/18/13 15:02	10/21/13 21:47	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/18/13 15:02	10/21/13 21:47	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/18/13 15:02	10/21/13 21:47	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/18/13 15:02	10/21/13 21:47	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/18/13 15:02	10/21/13 21:47	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/18/13 15:02	10/21/13 21:47	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/18/13 15:02	10/21/13 21:47	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/18/13 15:02	10/21/13 21:47	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/18/13 15:02	10/21/13 21:47	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/18/13 15:02	10/21/13 21:47	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/18/13 15:02	10/21/13 21:47	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/18/13 15:02	10/21/13 21:47	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/18/13 15:02	10/21/13 21:47	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/18/13 15:02	10/21/13 21:47	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		10/18/13 15:02	10/21/13 21:47	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/18/13 15:02	10/21/13 21:47	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/18/13 15:02	10/21/13 21:47	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/18/13 15:02	10/21/13 21:47	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/18/13 15:02	10/21/13 21:47	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		22 - 130				10/18/13 15:02	10/21/13 21:47	1
Tetrachloro-m-xylene	75		53 - 130				10/18/13 15:02	10/21/13 21:47	1

Lab Sample ID: LCS 680-299070/13-A

Matrix: Water

Analysis Batch: 299552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 299070

Analyte		Spike	LCS	LCS	%Rec.			
		Added	Result	Qualifier	Unit	D	%Rec	Limits
Aldrin		0.100	0.0872		ug/L		87	14 - 168
alpha-BHC		0.100	0.0845		ug/L		85	43 - 138
beta-BHC		0.100	0.0984		ug/L		98	38 - 158
delta-BHC		0.100	0.0968		ug/L		97	23 - 191
gamma-BHC (Lindane)		0.100	0.0884		ug/L		88	54 - 134
alpha-Chlordane		0.100	0.0964		ug/L		96	60 - 130
gamma-Chlordane		0.100	0.0959		ug/L		96	50 - 145
Dieldrin		0.100	0.0996		ug/L		100	61 - 136
4,4'-DDD		0.100	0.104		ug/L		104	49 - 144
4,4'-DDE		0.100	0.0797		ug/L		80	46 - 144
4,4'-DDT		0.100	0.0974		ug/L		97	48 - 166
Endosulfan I		0.100	0.0962		ug/L		96	52 - 141
Endosulfan II		0.100	0.0904		ug/L		90	60 - 140
Endosulfan sulfate		0.100	0.104		ug/L		104	60 - 151
Endrin		0.100	0.106		ug/L		106	66 - 150

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: LCS 680-299070/13-A**

**Matrix: Water**

**Analysis Batch: 299552**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299070**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Qualifier					
Endrin aldehyde	0.100	0.117		ug/L		117	16 - 200	
Endrin ketone	0.100	0.0971		ug/L		97	55 - 156	
Heptachlor	0.100	0.0873		ug/L		87	10 - 200	
Heptachlor epoxide	0.100	0.0974		ug/L		97	49 - 142	
Methoxychlor	0.100	0.0934		ug/L		93	13 - 186	
<b>Surrogate</b>		<b>LCS</b>	<b>LCS</b>					
		%Recovery	Qualifier	<b>Limits</b>				
DCB Decachlorobiphenyl	44			22 - 130				
Tetrachloro-m-xylene	75			53 - 130				

**Lab Sample ID: LCSD 680-299070/14-A**

**Matrix: Water**

**Analysis Batch: 299552**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 299070**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Aldrin	0.100	0.0877		ug/L		88	14 - 168	0	50
alpha-BHC	0.100	0.0869		ug/L		87	43 - 138	3	50
beta-BHC	0.100	0.0979	p	ug/L		98	38 - 158	1	50
delta-BHC	0.100	0.0982		ug/L		98	23 - 191	1	50
gamma-BHC (Lindane)	0.100	0.0895		ug/L		90	54 - 134	1	50
alpha-Chlordane	0.100	0.0937		ug/L		94	60 - 130	3	50
gamma-Chlordane	0.100	0.0939		ug/L		94	50 - 145	2	50
Dieldrin	0.100	0.0973		ug/L		97	61 - 136	2	50
4,4'-DDD	0.100	0.0996		ug/L		100	49 - 144	5	50
4,4'-DDE	0.100	0.0777		ug/L		78	46 - 144	3	50
4,4'-DDT	0.100	0.0931		ug/L		93	48 - 166	4	50
Endosulfan I	0.100	0.0923		ug/L		92	52 - 141	4	50
Endosulfan II	0.100	0.0873		ug/L		87	60 - 140	4	50
Endosulfan sulfate	0.100	0.0991		ug/L		99	60 - 151	5	50
Endrin	0.100	0.0993		ug/L		99	66 - 150	7	50
Endrin aldehyde	0.100	0.112		ug/L		112	16 - 200	4	50
Endrin ketone	0.100	0.0952		ug/L		95	55 - 156	2	50
Heptachlor	0.100	0.0871		ug/L		87	10 - 200	0	50
Heptachlor epoxide	0.100	0.0967		ug/L		97	49 - 142	1	50
Methoxychlor	0.100	0.0894		ug/L		89	13 - 186	4	50
<b>Surrogate</b>		<b>LCSD</b>	<b>LCSD</b>						
		%Recovery	Qualifier	<b>Limits</b>					
DCB Decachlorobiphenyl	49			22 - 130					
Tetrachloro-m-xylene	75			53 - 130					

**Lab Sample ID: MB 680-299780/19-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	0.050	U	0.050	0.0070	ug/L		10/23/13 15:34	10/24/13 16:35	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID:** MB 680-299780/19-A

**Matrix:** Water

**Analysis Batch:** 300041

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 299780

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/23/13 15:34	10/24/13 16:35	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/23/13 15:34	10/24/13 16:35	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/23/13 15:34	10/24/13 16:35	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/23/13 15:34	10/24/13 16:35	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/23/13 15:34	10/24/13 16:35	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/23/13 15:34	10/24/13 16:35	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/23/13 15:34	10/24/13 16:35	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/23/13 15:34	10/24/13 16:35	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/23/13 15:34	10/24/13 16:35	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		10/23/13 15:34	10/24/13 16:35	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/23/13 15:34	10/24/13 16:35	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/23/13 15:34	10/24/13 16:35	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/23/13 15:34	10/24/13 16:35	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/23/13 15:34	10/24/13 16:35	1
Surrogate	MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	66		22 - 130				10/23/13 15:34	10/24/13 16:35	1
Tetrachloro-m-xylene	74		53 - 130				10/23/13 15:34	10/24/13 16:35	1

**Lab Sample ID:** LCS 680-299780/20-A

**Matrix:** Water

**Analysis Batch:** 300041

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 299780

Analyte	Spike		Result	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Added								
Aldrin	0.100		0.0911			ug/L		91	14 - 168	
alpha-BHC	0.100		0.0888			ug/L		89	43 - 138	
beta-BHC	0.100		0.100			ug/L		100	38 - 158	
delta-BHC	0.100		0.0947			ug/L		95	23 - 191	
gamma-BHC (Lindane)	0.100		0.0917			ug/L		92	54 - 134	
alpha-Chlordane	0.100		0.0966			ug/L		97	60 - 130	
gamma-Chlordane	0.100		0.0952			ug/L		95	50 - 145	
Dieldrin	0.100		0.0974			ug/L		97	61 - 136	
4,4'-DDD	0.100		0.0944			ug/L		94	49 - 144	
4,4'-DDE	0.100		0.0916			ug/L		92	46 - 144	
4,4'-DDT	0.100		0.0929			ug/L		93	48 - 166	
Endosulfan I	0.100		0.0765			ug/L		77	52 - 141	
Endosulfan II	0.100		0.0818			ug/L		82	60 - 140	
Endosulfan sulfate	0.100		0.0923			ug/L		92	60 - 151	
Endrin	0.100		0.109			ug/L		109	66 - 150	
Endrin aldehyde	0.100		0.101			ug/L		101	16 - 200	
Endrin ketone	0.100		0.0887			ug/L		89	55 - 156	

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: LCS 680-299780/20-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Analyte	Spike Added	LCS			Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier	LCS					
Heptachlor	0.100	0.0889		ug/L		89	10 - 200		
Heptachlor epoxide	0.100	0.0971		ug/L		97	49 - 142		
Methoxychlor	0.100	0.0912		ug/L		91	13 - 186		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
DCB Decachlorobiphenyl	64		22 - 130						
Tetrachloro-m-xylene	74		53 - 130						

**Lab Sample ID: LCS 680-299780/24-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	65		22 - 130
Tetrachloro-m-xylene	74		53 - 130

**Lab Sample ID: LCSD 680-299780/21-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Analyte	Spike Added	LCSD			Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier	LCSD						
Aldrin	0.100	0.0848		ug/L		85	14 - 168	7	50	
alpha-BHC	0.100	0.0825		ug/L		83	43 - 138	7	50	
beta-BHC	0.100	0.0942		ug/L		94	38 - 158	6	50	
delta-BHC	0.100	0.0882		ug/L		88	23 - 191	7	50	
gamma-BHC (Lindane)	0.100	0.0857		ug/L		86	54 - 134	7	50	
alpha-Chlordane	0.100	0.0922		ug/L		92	60 - 130	5	50	
gamma-Chlordane	0.100	0.0895		ug/L		89	50 - 145	6	50	
Dieldrin	0.100	0.0938		ug/L		94	61 - 136	4	50	
4,4'-DDD	0.100	0.0898		ug/L		90	49 - 144	5	50	
4,4'-DDE	0.100	0.0868		ug/L		87	46 - 144	5	50	
4,4'-DDT	0.100	0.0893		ug/L		89	48 - 166	4	50	
Endosulfan I	0.100	0.0733		ug/L		73	52 - 141	4	50	
Endosulfan II	0.100	0.0799		ug/L		80	60 - 140	2	50	
Endosulfan sulfate	0.100	0.0894		ug/L		89	60 - 151	3	50	
Endrin	0.100	0.103		ug/L		103	66 - 150	5	50	
Endrin aldehyde	0.100	0.0983		ug/L		98	16 - 200	3	50	
Endrin ketone	0.100	0.0878		ug/L		88	55 - 156	1	50	
Heptachlor	0.100	0.0835		ug/L		84	10 - 200	6	50	
Heptachlor epoxide	0.100	0.0918		ug/L		92	49 - 142	6	50	
Methoxychlor	0.100	0.0891		ug/L		89	13 - 186	2	50	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	62		22 - 130
Tetrachloro-m-xylene	66		53 - 130

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-299780/25-A  
Matrix: Water  
Analysis Batch: 300041

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 299780

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	67				22 - 130
Tetrachloro-m-xylene	71				53 - 130

## Method: 160.2 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 680-298934/1  
Matrix: Water  
Analysis Batch: 298934

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids			5.0	U		5.0	mg/L			10/17/13 14:23	1

Lab Sample ID: LCS 680-298934/2  
Matrix: Water  
Analysis Batch: 298934

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits		
Total Suspended Solids	Added			93.0		mg/L		93	80 - 120		

Lab Sample ID: LCSD 680-298934/3  
Matrix: Water  
Analysis Batch: 298934

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Total Suspended Solids	Added			96.5		mg/L		97	80 - 120	4	25

Lab Sample ID: 680-95150-11 DU  
Matrix: Water  
Analysis Batch: 298934

Client Sample ID: Dup 1  
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Result	Qualifier	Unit	D		RPD	Limit
Total Suspended Solids	Result	Qualifier			5.0	U	mg/L			NC	25

# QC Association Summary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## GC Semi VOA

### Prep Batch: 299070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95150-1	SW-01	Total/NA	Water	3520C	5
680-95150-2	SW-02	Total/NA	Water	3520C	6
680-95150-3	SW-03	Total/NA	Water	3520C	7
680-95150-4	SW-04	Total/NA	Water	3520C	8
680-95150-5	SW-05	Total/NA	Water	3520C	9
680-95150-6	SW-06	Total/NA	Water	3520C	10
680-95150-7	SW-07	Total/NA	Water	3520C	11
680-95150-8	SW-08	Total/NA	Water	3520C	12
680-95150-9	SW-09	Total/NA	Water	3520C	1
680-95150-10	SW-11-2	Total/NA	Water	3520C	2
680-95150-11	Dup 1	Total/NA	Water	3520C	3
LCS 680-299070/13-A	Lab Control Sample	Total/NA	Water	3520C	4
LCSD 680-299070/14-A	Lab Control Sample Dup	Total/NA	Water	3520C	5
MB 680-299070/12-A	Method Blank	Total/NA	Water	3520C	6

### Analysis Batch: 299552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95150-1	SW-01	Total/NA	Water	8081B/8082A	299070
680-95150-2	SW-02	Total/NA	Water	8081B/8082A	299070
680-95150-3	SW-03	Total/NA	Water	8081B/8082A	299070
680-95150-4	SW-04	Total/NA	Water	8081B/8082A	299070
680-95150-5	SW-05	Total/NA	Water	8081B/8082A	299070
680-95150-6	SW-06	Total/NA	Water	8081B/8082A	299070
680-95150-7	SW-07	Total/NA	Water	8081B/8082A	299070
680-95150-8	SW-08	Total/NA	Water	8081B/8082A	299070
680-95150-9	SW-09	Total/NA	Water	8081B/8082A	299070
680-95150-10	SW-11-2	Total/NA	Water	8081B/8082A	299070
680-95150-11	Dup 1	Total/NA	Water	8081B/8082A	299070
LCS 680-299070/13-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299070
LCSD 680-299070/14-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299070
MB 680-299070/12-A	Method Blank	Total/NA	Water	8081B/8082A	299070

### Prep Batch: 299780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95150-1 - RE	SW-01	Total/NA	Water	3520C	
LCS 680-299780/20-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-299780/24-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-299780/21-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-299780/25-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-299780/19-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 300041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-299780/20-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299780
LCS 680-299780/24-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299780
LCSD 680-299780/21-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299780
LCSD 680-299780/25-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299780
MB 680-299780/19-A	Method Blank	Total/NA	Water	8081B/8082A	299780

# QC Association Summary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

## GC Semi VOA (Continued)

### Analysis Batch: 300159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95150-1 - RE	SW-01	Total/NA	Water	8081B/8082A	299780

## General Chemistry

### Analysis Batch: 298934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95150-1	SW-01	Total/NA	Water	160.2	
680-95150-2	SW-02	Total/NA	Water	160.2	
680-95150-3	SW-03	Total/NA	Water	160.2	
680-95150-4	SW-04	Total/NA	Water	160.2	
680-95150-5	SW-05	Total/NA	Water	160.2	
680-95150-6	SW-06	Total/NA	Water	160.2	
680-95150-7	SW-07	Total/NA	Water	160.2	
680-95150-8	SW-08	Total/NA	Water	160.2	
680-95150-9	SW-09	Total/NA	Water	160.2	
680-95150-10	SW-11-2	Total/NA	Water	160.2	
680-95150-11	Dup 1	Total/NA	Water	160.2	
680-95150-11 DU	Dup 1	Total/NA	Water	160.2	
LCS 680-298934/2	Lab Control Sample	Total/NA	Water	160.2	
LCSD 680-298934/3	Lab Control Sample Dup	Total/NA	Water	160.2	
MB 680-298934/1	Method Blank	Total/NA	Water	160.2	

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-01**

**Lab Sample ID: 680-95150-1**

Matrix: Water

Date Collected: 10/14/13 12:53

Date Received: 10/15/13 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	299552	10/21/13 23:41	JCK	TAL SAV
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	RE	1	300159	10/25/13 05:26	JCK	TAL SAV
Total/NA	Prep	3520C	RE		299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:38	TAR	TAL SAV

**Client Sample ID: SW-02**

**Lab Sample ID: 680-95150-2**

Matrix: Water

Date Collected: 10/14/13 12:35

Date Received: 10/15/13 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 00:03	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:39	TAR	TAL SAV

**Client Sample ID: SW-03**

**Lab Sample ID: 680-95150-3**

Matrix: Water

Date Collected: 10/14/13 13:18

Date Received: 10/15/13 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 00:26	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:40	TAR	TAL SAV

**Client Sample ID: SW-04**

**Lab Sample ID: 680-95150-4**

Matrix: Water

Date Collected: 10/14/13 12:10

Date Received: 10/15/13 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 00:49	JCK	TAL SAV
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:41	TAR	TAL SAV

**Client Sample ID: SW-05**

**Lab Sample ID: 680-95150-5**

Matrix: Water

Date Collected: 10/14/13 11:30

Date Received: 10/15/13 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 01:11	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:42	TAR	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: SW-06**

Date Collected: 10/14/13 11:03

Date Received: 10/15/13 09:14

**Lab Sample ID: 680-95150-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 01:34	JCK	TAL SAV
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:43	TAR	TAL SAV

**Client Sample ID: SW-07**

Date Collected: 10/14/13 10:51

Date Received: 10/15/13 09:14

**Lab Sample ID: 680-95150-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 01:57	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:45	TAR	TAL SAV

**Client Sample ID: SW-08**

Date Collected: 10/14/13 10:33

Date Received: 10/15/13 09:14

**Lab Sample ID: 680-95150-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 02:19	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:46	TAR	TAL SAV

**Client Sample ID: SW-09**

Date Collected: 10/14/13 10:21

Date Received: 10/15/13 09:14

**Lab Sample ID: 680-95150-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 02:42	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:47	TAR	TAL SAV

**Client Sample ID: SW-11-2**

Date Collected: 10/14/13 11:16

Date Received: 10/15/13 09:14

**Lab Sample ID: 680-95150-10**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 03:05	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:47	TAR	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

**Client Sample ID: Dup 1**

**Date Collected: 10/14/13 13:20**

**Date Received: 10/15/13 09:14**

**Lab Sample ID: 680-95150-11**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299070	10/18/13 15:02	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299552	10/22/13 03:27	JCK	TAL SAV
Total/NA	Analysis	160.2		1	298934	10/17/13 14:49	TAR	TAL SAV

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Certification Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95150-1

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13 *
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13 *
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica Savannah**  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

Serial Number

72815

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE		PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS		PAGE	1	1	OF
TAL (LAB) PROJECT MANAGER <i>Michelle Kessy</i>	P.O. NUMBER	131237	NC	CONTRACT NO.			STANDARD REPORT	<input checked="" type="checkbox"/>		
CLIENT (SITE) FM <i>Chris Hay</i>	CLIENT PHONE (328)668-0093			CLIENT FAX			DELIVERY			
CLIENT NAME <i>Kleinfelder</i>	CLIENT E-MAIL christopher.kleinfelder@kleinfelder.com						DATE DUE	<input type="checkbox"/>		
CLIENT ADDRESS <i>313 Bellmore Dairy Rd, Greensboro NC 27407</i>	PREZD						EXPEDITED REPORT	<input type="checkbox"/>		
COMPONENTS (C) OR GRAB (G) INDICATE										
AQUEOUS (WATER)										
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)										
SOLID OR SEMISOLID										
AIR										
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:										
NUMBER OF CONTAINERS SUBMITTED										
REMARKS										
SAMPLE IDENTIFICATION										
SAMPLE	DATE	TIME								
Page-14-13	12:53	Sw-01	<input checked="" type="checkbox"/>							
	12:35	Sw-02	<input checked="" type="checkbox"/>							
	13:18	Sw-03	<input checked="" type="checkbox"/>							
	12:10	Sw-04	<input checked="" type="checkbox"/>							
	14:30	Sw-05	<input checked="" type="checkbox"/>							
	11:03	Sw-06	<input checked="" type="checkbox"/>							
	10:51	Sw-07	<input checked="" type="checkbox"/>							
	10:33	Sw-08	<input checked="" type="checkbox"/>							
	10:21	Sw-09	<input checked="" type="checkbox"/>							
	11:16	Sw-11-2	<input checked="" type="checkbox"/>							
	13:20	Due 1	<input checked="" type="checkbox"/>							
REINQUISITIONED BY: (SIGNATURE) <i>Connie Blackes</i>	DATE	TIME	REINQUISITIONED BY: (SIGNATURE)	DATE	TIME	REINQUISITIONED BY: (SIGNATURE)	DATE	TIME		
RECEIVED BY: (SIGNATURE) <i>Juopke</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME		
LABORATORY USE ONLY										
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY/INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS				
	10/15/13	0914		690-95150	0.3	0.4 0.3 °C				



680-95150 Chain of Custody

1  
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TAL240-650 (100)

## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-95150-1

**Login Number: 95150**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Conner, Keaton**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue  
Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-95286-1

Client Project/Site: Geigy Chemical Corp./Olin

For:

Kleinfelder Inc  
313 Gallimore Dairy Road  
Greensboro, North Carolina 27409

Attn: Mr. Christopher W Hay

*Michele R Kersey*

Authorized for release by:

10/31/2013 5:24:26 PM

Michele Kersey, Project Manager I

(912)354-7858

[michele.kersey@testamericainc.com](mailto:michele.kersey@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## Case Narrative

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Job ID: 680-95286-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Kleinfelder Inc**

**Project: Geigy Chemical Corp./Olin**

**Report Number: 680-95286-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 10/18/2013 9:34 AM and 10/19/2013 8:41 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 2.4° C, 2.6° C, 3.0° C, 3.0° C, 3.6° C, 3.8° C and 4.8° C.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-10S (680-95286-4), MW-16S (680-95286-5), MW-17S (680-95286-6), MW-18S (680-95286-7), MW-16D (680-95286-8), MW-17D (680-95286-9), MW-18D (680-95286-10), MW-30D (680-95286-14) and TRIB BLANK 082713 (680-95286-29) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/19/2013.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

#### **PESTICIDES AND PCBs**

Samples MW-4S (680-95286-1), MW38L (680-95335-1), MW-5S (680-95286-2), MW31L (680-95335-2), MW-6S (680-95286-3), PZ5 (680-95335-3), MW-10S (680-95286-4), MW40L (680-95335-4), MW-16S (680-95286-5), DUP2 (680-95335-5), MW-17S (680-95286-6), MW-18S (680-95286-7), MW-18D (680-95286-10), MW-22D (680-95286-11), MW-23D (680-95286-12), MW-26D (680-95286-13), MW-30D (680-95286-14), MW-22L (680-95286-15), MW-25L (680-95286-16), MW-27L (680-95286-17), MW-32L (680-95286-19), MW-36L (680-95286-20), MW-37L (680-95286-21), MW-39L (680-95286-23), PZ-2 (680-95286-26) and PZ-3 (680-95286-27) were analyzed for Pesticides and PCBs in accordance with EPA SW-846 Method 8081B\_8082A. The samples were prepared on 10/21/2013 and 10/23/2013 and analyzed on 10/23/2013, 10/24/2013, 10/25/2013 and 10/30/2013.

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

Samples MW-4S (680-95286-1)[40X], MW-5S (680-95286-2)[20X], MW31L (680-95286-2)[4X], MW-6S (680-95286-3)[10X], PZ5 (680-95286-3)[4X], MW-10S (680-95286-4)[4X], MW-18D (680-95286-10)[10X], MW-30D (680-95286-14)[10X], MW-22L (680-95286-15)[2X], MW-25L (680-95286-16)[4X], MW-27L (680-95286-17)[10X] and MW-37L (680-95286-21)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Pesticides and PCBs analysis.

## Case Narrative

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

### Job ID: 680-95286-1 (Continued)

#### Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

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## Sample Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-95286-1	MW-4S	Water	10/16/13 10:33	10/18/13 09:34
680-95286-2	MW-5S	Water	10/15/13 14:44	10/18/13 09:34
680-95286-3	MW-6S	Water	10/15/13 15:35	10/18/13 09:34
680-95286-4	MW-10S	Water	10/15/13 12:49	10/18/13 09:34
680-95286-5	MW-16S	Water	10/15/13 10:21	10/18/13 09:34
680-95286-6	MW-17S	Water	10/15/13 11:07	10/18/13 09:34
680-95286-7	MW-18S	Water	10/15/13 11:43	10/18/13 09:34
680-95286-8	MW-16D	Water	10/16/13 11:55	10/18/13 09:34
680-95286-9	MW-17D	Water	10/16/13 12:15	10/18/13 09:34
680-95286-10	MW-18D	Water	10/16/13 10:08	10/18/13 09:34
680-95286-11	MW-22D	Water	10/16/13 13:49	10/18/13 09:34
680-95286-12	MW-23D	Water	10/16/13 14:32	10/18/13 09:34
680-95286-13	MW-26D	Water	10/17/13 15:38	10/18/13 09:34
680-95286-14	MW-30D	Water	10/16/13 10:55	10/18/13 09:34
680-95286-15	MW-22L	Water	10/16/13 13:30	10/18/13 09:34
680-95286-16	MW-25L	Water	10/16/13 15:26	10/18/13 09:34
680-95286-17	MW-27L	Water	10/17/13 10:59	10/18/13 09:34
680-95286-19	MW-32L	Water	10/17/13 14:45	10/18/13 09:34
680-95286-20	MW-36L	Water	10/16/13 15:15	10/18/13 09:34
680-95286-21	MW-37L	Water	10/16/13 16:03	10/18/13 09:34
680-95286-23	MW-39L	Water	10/17/13 12:40	10/18/13 09:34
680-95286-26	PZ-2	Water	10/17/13 11:42	10/18/13 09:34
680-95286-27	PZ-3	Water	10/17/13 10:13	10/18/13 09:34
680-95286-29	TRIB BLANK 082713	Water	10/17/13 00:00	10/18/13 09:34
680-95335-1	MW38L	Water	10/17/13 10:07	10/19/13 08:41
680-95335-2	MW31L	Water	10/17/13 10:57	10/19/13 08:41
680-95335-3	PZ5	Water	10/17/13 11:45	10/19/13 08:41
680-95335-4	MW40L	Water	10/17/13 12:35	10/19/13 08:41
680-95335-5	DUP2	Water	10/17/13 12:37	10/19/13 08:41

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## Method Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Definitions/Glossary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

### Glossary

#### Abbreviation

**These commonly used abbreviations may or may not be present in this report.**

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## Client Sample ID: MW-4S

Date Collected: 10/16/13 10:33

Date Received: 10/18/13 09:34

## Lab Sample ID: 680-95286-1

Matrix: Water

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>alpha-BHC</b>	<b>0.041</b>	<b>J</b>	0.050	0.0057	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>beta-BHC</b>	<b>6.7</b>	<b>E p</b>	0.050	0.0067	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>delta-BHC</b>	<b>1.3</b>	<b>E p</b>	0.050	0.0048	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>gamma-BHC (Lindane)</b>	<b>0.067</b>	<b>p</b>	0.050	0.0059	ug/L		10/21/13 16:12	10/23/13 20:26	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/21/13 16:12	10/23/13 20:26	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>Dieldrin</b>	<b>1.6</b>	<b>E</b>	0.050	0.0091	ug/L		10/21/13 16:12	10/23/13 20:26	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/21/13 16:12	10/23/13 20:26	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/21/13 16:12	10/23/13 20:26	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/21/13 16:12	10/23/13 20:26	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/21/13 16:12	10/23/13 20:26	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/21/13 16:12	10/23/13 20:26	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/21/13 16:12	10/23/13 20:26	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/21/13 16:12	10/23/13 20:26	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>Endrin ketone</b>	<b>1.1</b>	<b>E</b>	0.050	0.0084	ug/L		10/21/13 16:12	10/23/13 20:26	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>Heptachlor epoxide</b>	<b>0.27</b>		0.050	0.0060	ug/L		10/21/13 16:12	10/23/13 20:26	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>Toxaphene</b>	<b>7.4</b>	<b>p</b>	5.0	0.50	ug/L		10/21/13 16:12	10/23/13 20:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	47		22 - 130				10/21/13 16:12	10/23/13 20:26	1
Tetrachloro-m-xylene	60		53 - 130				10/21/13 16:12	10/23/13 20:26	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	2.0	U	2.0	0.28	ug/L		10/21/13 16:12	10/30/13 13:15	40
alpha-BHC	2.0	U	2.0	0.23	ug/L		10/21/13 16:12	10/30/13 13:15	40
<b>beta-BHC</b>	<b>7.1</b>	<b>D</b>	2.0	0.27	ug/L		10/21/13 16:12	10/30/13 13:15	40
<b>delta-BHC</b>	<b>1.1</b>	<b>J D</b>	2.0	0.19	ug/L		10/21/13 16:12	10/30/13 13:15	40
gamma-BHC (Lindane)	2.0	U	2.0	0.24	ug/L		10/21/13 16:12	10/30/13 13:15	40
alpha-Chlordane	2.0	U	2.0	0.24	ug/L		10/21/13 16:12	10/30/13 13:15	40
gamma-Chlordane	2.0	U	2.0	0.20	ug/L		10/21/13 16:12	10/30/13 13:15	40
<b>Dieldrin</b>	<b>0.99</b>	<b>J D</b>	2.0	0.36	ug/L		10/21/13 16:12	10/30/13 13:15	40
4,4'-DDD	2.0	U	2.0	0.26	ug/L		10/21/13 16:12	10/30/13 13:15	40
4,4'-DDE	2.0	U	2.0	0.31	ug/L		10/21/13 16:12	10/30/13 13:15	40
4,4'-DDT	2.0	U	2.0	0.39	ug/L		10/21/13 16:12	10/30/13 13:15	40
Endosulfan I	2.0	U	2.0	0.17	ug/L		10/21/13 16:12	10/30/13 13:15	40
Endosulfan II	2.0	U	2.0	0.39	ug/L		10/21/13 16:12	10/30/13 13:15	40
Endosulfan sulfate	2.0	U	2.0	0.27	ug/L		10/21/13 16:12	10/30/13 13:15	40
Endrin	2.0	U	2.0	0.39	ug/L		10/21/13 16:12	10/30/13 13:15	40
Endrin aldehyde	2.0	U	2.0	0.64	ug/L		10/21/13 16:12	10/30/13 13:15	40
<b>Endrin ketone</b>	<b>0.62</b>	<b>J D</b>	2.0	0.33	ug/L		10/21/13 16:12	10/30/13 13:15	40
Heptachlor	2.0	U	2.0	0.28	ug/L		10/21/13 16:12	10/30/13 13:15	40
Heptachlor epoxide	2.0	U	2.0	0.24	ug/L		10/21/13 16:12	10/30/13 13:15	40
Methoxychlor	2.0	U	2.0	0.52	ug/L		10/21/13 16:12	10/30/13 13:15	40
Toxaphene	200	U	200	20	ug/L		10/21/13 16:12	10/30/13 13:15	40

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-4S**

**Date Collected: 10/16/13 10:33**

**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-1**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	22 - 130	10/21/13 16:12	10/30/13 13:15	40
Tetrachloro-m-xylene	0	D	53 - 130	10/21/13 16:12	10/30/13 13:15	40

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-5S**

**Lab Sample ID: 680-95286-2**

**Matrix: Water**

Date Collected: 10/15/13 14:44

Date Received: 10/18/13 09:34

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>alpha-BHC</b>	<b>0.046</b>	<b>J</b>	0.048	0.0054	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>beta-BHC</b>	<b>2.2</b>	<b>E p</b>	0.048	0.0064	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>delta-BHC</b>	<b>0.17</b>		0.048	0.0046	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>gamma-BHC (Lindane)</b>	<b>0.041</b>	<b>J p</b>	0.048	0.0056	ug/L		10/21/13 16:12	10/23/13 21:12	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/23/13 21:12	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>Dieldrin</b>	<b>0.95</b>	<b>E p</b>	0.048	0.0087	ug/L		10/21/13 16:12	10/23/13 21:12	1
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		10/21/13 16:12	10/23/13 21:12	1
4,4'-DDE	0.048	U	0.048	0.0073	ug/L		10/21/13 16:12	10/23/13 21:12	1
4,4'-DDT	0.048	U	0.048	0.0092	ug/L		10/21/13 16:12	10/23/13 21:12	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/21/13 16:12	10/23/13 21:12	1
Endosulfan II	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/23/13 21:12	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/21/13 16:12	10/23/13 21:12	1
Endrin	0.048	U	0.048	0.0092	ug/L		10/21/13 16:12	10/23/13 21:12	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>Endrin ketone</b>	<b>0.33</b>	<b>p</b>	0.048	0.0080	ug/L		10/21/13 16:12	10/23/13 21:12	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/23/13 21:12	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/23/13 21:12	1
Methoxychlor	0.048	U	0.048	0.012	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>Toxaphene</b>	<b>18</b>	<b>p</b>	4.8	0.48	ug/L		10/21/13 16:12	10/23/13 21:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	81		22 - 130				10/21/13 16:12	10/23/13 21:12	1
Tetrachloro-m-xylene	65		53 - 130				10/21/13 16:12	10/23/13 21:12	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.95	U	0.95	0.13	ug/L		10/21/13 16:12	10/30/13 13:38	20
alpha-BHC	0.95	U	0.95	0.11	ug/L		10/21/13 16:12	10/30/13 13:38	20
<b>beta-BHC</b>	<b>2.9</b>	<b>D</b>	0.95	0.13	ug/L		10/21/13 16:12	10/30/13 13:38	20
delta-BHC	0.95	U	0.95	0.091	ug/L		10/21/13 16:12	10/30/13 13:38	20
gamma-BHC (Lindane)	0.95	U	0.95	0.11	ug/L		10/21/13 16:12	10/30/13 13:38	20
alpha-Chlordane	0.95	U	0.95	0.11	ug/L		10/21/13 16:12	10/30/13 13:38	20
gamma-Chlordane	0.95	U	0.95	0.097	ug/L		10/21/13 16:12	10/30/13 13:38	20
<b>Dieldrin</b>	<b>1.0</b>	<b>D</b>	0.95	0.17	ug/L		10/21/13 16:12	10/30/13 13:38	20
4,4'-DDD	0.95	U	0.95	0.12	ug/L		10/21/13 16:12	10/30/13 13:38	20
4,4'-DDE	0.95	U	0.95	0.15	ug/L		10/21/13 16:12	10/30/13 13:38	20
4,4'-DDT	0.95	U	0.95	0.18	ug/L		10/21/13 16:12	10/30/13 13:38	20
Endosulfan I	0.95	U	0.95	0.080	ug/L		10/21/13 16:12	10/30/13 13:38	20
Endosulfan II	0.95	U	0.95	0.19	ug/L		10/21/13 16:12	10/30/13 13:38	20
Endosulfan sulfate	0.95	U	0.95	0.13	ug/L		10/21/13 16:12	10/30/13 13:38	20
Endrin	0.95	U	0.95	0.18	ug/L		10/21/13 16:12	10/30/13 13:38	20
Endrin aldehyde	0.95	U	0.95	0.30	ug/L		10/21/13 16:12	10/30/13 13:38	20
<b>Endrin ketone</b>	<b>0.41</b>	<b>J D</b>	0.95	0.16	ug/L		10/21/13 16:12	10/30/13 13:38	20
Heptachlor	0.95	U	0.95	0.13	ug/L		10/21/13 16:12	10/30/13 13:38	20
Heptachlor epoxide	0.95	U	0.95	0.11	ug/L		10/21/13 16:12	10/30/13 13:38	20
<b>Methoxychlor</b>	<b>0.83</b>	<b>J D</b>	0.95	0.25	ug/L		10/21/13 16:12	10/30/13 13:38	20
<b>Toxaphene</b>	<b>22</b>	<b>J D</b>	95	9.5	ug/L		10/21/13 16:12	10/30/13 13:38	20

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-5S**

**Date Collected: 10/15/13 14:44**

**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-2**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	22 - 130	10/21/13 16:12	10/30/13 13:38	20
Tetrachloro-m-xylene	0	D	53 - 130	10/21/13 16:12	10/30/13 13:38	20

# Client Sample Results

Client: Kleinfelder Inc  
 Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-6S**

**Lab Sample ID: 680-95286-3**

**Matrix: Water**

Date Collected: 10/15/13 15:35

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/23/13 21:57	1
Aldrin	0.48	U	0.48	0.067	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>alpha-BHC</b>	<b>0.10</b>		0.048	0.0054	ug/L		10/21/13 16:12	10/23/13 21:57	1
<b>alpha-BHC</b>	<b>0.16</b>	<b>J</b>	0.48	0.054	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>beta-BHC</b>	<b>3.1</b>	<b>E p</b>	0.048	0.0064	ug/L		10/21/13 16:12	10/23/13 21:57	1
<b>beta-BHC</b>	<b>5.0</b>		0.48	0.064	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>delta-BHC</b>	<b>1.4</b>	<b>E p</b>	0.048	0.0046	ug/L		10/21/13 16:12	10/23/13 21:57	1
<b>delta-BHC</b>	<b>2.0</b>		0.48	0.046	ug/L		10/21/13 16:12	10/23/13 22:20	10
gamma-BHC (Lindane)	0.048	U	0.048	0.0056	ug/L		10/21/13 16:12	10/23/13 21:57	1
gamma-BHC (Lindane)	0.48	U	0.48	0.056	ug/L		10/21/13 16:12	10/23/13 22:20	10
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/23/13 21:57	1
alpha-Chlordane	0.48	U	0.48	0.057	ug/L		10/21/13 16:12	10/23/13 22:20	10
gamma-Chlordane	0.048	U	0.048	0.0048	ug/L		10/21/13 16:12	10/23/13 21:57	1
gamma-Chlordane	0.48	U	0.48	0.048	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>Dieldrin</b>	<b>0.36</b>	<b>p</b>	0.048	0.0087	ug/L		10/21/13 16:12	10/23/13 21:57	1
Dieldrin	0.48	U	0.48	0.087	ug/L		10/21/13 16:12	10/23/13 22:20	10
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		10/21/13 16:12	10/23/13 21:57	1
4,4'-DDD	0.48	U	0.48	0.062	ug/L		10/21/13 16:12	10/23/13 22:20	10
4,4'-DDE	0.048	U	0.048	0.0073	ug/L		10/21/13 16:12	10/23/13 21:57	1
4,4'-DDE	0.48	U	0.48	0.073	ug/L		10/21/13 16:12	10/23/13 22:20	10
4,4'-DDT	0.048	U	0.048	0.0092	ug/L		10/21/13 16:12	10/23/13 21:57	1
4,4'-DDT	0.48	U	0.48	0.092	ug/L		10/21/13 16:12	10/23/13 22:20	10
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/21/13 16:12	10/23/13 21:57	1
Endosulfan I	0.48	U	0.48	0.040	ug/L		10/21/13 16:12	10/23/13 22:20	10
Endosulfan II	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/23/13 21:57	1
Endosulfan II	0.48	U	0.48	0.093	ug/L		10/21/13 16:12	10/23/13 22:20	10
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/21/13 16:12	10/23/13 21:57	1
Endosulfan sulfate	0.48	U	0.48	0.065	ug/L		10/21/13 16:12	10/23/13 22:20	10
Endrin	0.048	U	0.048	0.0092	ug/L		10/21/13 16:12	10/23/13 21:57	1
<b>Endrin</b>	<b>0.18</b>	<b>J</b>	0.48	0.092	ug/L		10/21/13 16:12	10/23/13 22:20	10
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/21/13 16:12	10/23/13 21:57	1
Endrin aldehyde	0.48	U	0.48	0.15	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>Endrin ketone</b>	<b>0.34</b>		0.048	0.0080	ug/L		10/21/13 16:12	10/23/13 21:57	1
<b>Endrin ketone</b>	<b>0.32</b>	<b>J</b>	0.48	0.080	ug/L		10/21/13 16:12	10/23/13 22:20	10
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/23/13 21:57	1
Heptachlor	0.48	U	0.48	0.067	ug/L		10/21/13 16:12	10/23/13 22:20	10
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/23/13 21:57	1
Heptachlor epoxide	0.48	U	0.48	0.057	ug/L		10/21/13 16:12	10/23/13 22:20	10
Methoxychlor	0.048	U	0.048	0.012	ug/L		10/21/13 16:12	10/23/13 21:57	1
Methoxychlor	0.48	U	0.48	0.12	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>Toxaphene</b>	<b>5.2</b>	<b>p</b>	4.8	0.48	ug/L		10/21/13 16:12	10/23/13 21:57	1
<b>Toxaphene</b>	<b>6.8</b>	<b>J</b>	48	4.8	ug/L		10/21/13 16:12	10/23/13 22:20	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	56			22 - 130			10/21/13 16:12	10/23/13 21:57	1
DCB Decachlorobiphenyl	0	D		22 - 130			10/21/13 16:12	10/23/13 22:20	10
Tetrachloro-m-xylene	66			53 - 130			10/21/13 16:12	10/23/13 21:57	1
Tetrachloro-m-xylene	0	D		53 - 130			10/21/13 16:12	10/23/13 22:20	10

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-10S**

**Lab Sample ID: 680-95286-4**

**Matrix: Water**

Date Collected: 10/15/13 12:49

Date Received: 10/18/13 09:34

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/19/13 18:14	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	103		70 - 130				Prepared	10/19/13 18:14	1
4-Bromofluorobenzene	99		70 - 130					10/19/13 18:14	1
Dibromofluoromethane	101		70 - 130					10/19/13 18:14	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0068	ug/L		10/21/13 16:12	10/23/13 22:43	1
alpha-BHC	0.013	J	0.048	0.0055	ug/L		10/21/13 16:12	10/23/13 22:43	1
beta-BHC	0.88	E *	0.048	0.0065	ug/L		10/21/13 16:12	10/23/13 22:43	1
delta-BHC	0.026	J p	0.048	0.0047	ug/L		10/21/13 16:12	10/23/13 22:43	1
gamma-BHC (Lindane)	0.021	J	0.048	0.0057	ug/L		10/21/13 16:12	10/23/13 22:43	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/21/13 16:12	10/23/13 22:43	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/21/13 16:12	10/23/13 22:43	1
Dieldrin	0.067		0.048	0.0088	ug/L		10/21/13 16:12	10/23/13 22:43	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		10/21/13 16:12	10/23/13 22:43	1
4,4'-DDE	0.048	U	0.048	0.0075	ug/L		10/21/13 16:12	10/23/13 22:43	1
4,4'-DDT	0.048	U	0.048	0.0094	ug/L		10/21/13 16:12	10/23/13 22:43	1
<b>Endosulfan I</b>	<b>0.012</b>	<b>J</b>	0.048	0.0041	ug/L		10/21/13 16:12	10/23/13 22:43	1
Endosulfan II	0.048	U	0.048	0.0095	ug/L		10/21/13 16:12	10/23/13 22:43	1
Endosulfan sulfate	0.048	U	0.048	0.0066	ug/L		10/21/13 16:12	10/23/13 22:43	1
Endrin	0.048	U	0.048	0.0094	ug/L		10/21/13 16:12	10/23/13 22:43	1
Endrin aldehyde	0.048	U	0.048	0.016	ug/L		10/21/13 16:12	10/23/13 22:43	1
<b>Endrin ketone</b>	<b>0.16</b>		0.048	0.0081	ug/L		10/21/13 16:12	10/23/13 22:43	1
Heptachlor	0.048	U	0.048	0.0068	ug/L		10/21/13 16:12	10/23/13 22:43	1
<b>Heptachlor epoxide</b>	<b>0.014</b>	<b>J p</b>	0.048	0.0058	ug/L		10/21/13 16:12	10/23/13 22:43	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		10/21/13 16:12	10/23/13 22:43	1
<b>Toxaphene</b>	<b>0.53</b>	<b>J p</b>	4.8	0.48	ug/L		10/21/13 16:12	10/23/13 22:43	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	52		22 - 130				Prepared	10/21/13 16:12	10/23/13 22:43
Tetrachloro-m-xylene	58		53 - 130					10/21/13 16:12	10/23/13 22:43

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.19	U	0.19	0.027	ug/L		10/21/13 16:12	10/30/13 14:01	4
alpha-BHC	0.19	U	0.19	0.022	ug/L		10/21/13 16:12	10/30/13 14:01	4
<b>beta-BHC</b>	<b>0.82</b>	<b>D</b>	0.19	0.026	ug/L		10/21/13 16:12	10/30/13 14:01	4
<b>delta-BHC</b>	<b>0.029</b>	<b>J D</b>	0.19	0.019	ug/L		10/21/13 16:12	10/30/13 14:01	4
gamma-BHC (Lindane)	0.19	U	0.19	0.023	ug/L		10/21/13 16:12	10/30/13 14:01	4
alpha-Chlordane	0.19	U	0.19	0.023	ug/L		10/21/13 16:12	10/30/13 14:01	4
gamma-Chlordane	0.19	U	0.19	0.020	ug/L		10/21/13 16:12	10/30/13 14:01	4
<b>Dieldrin</b>	<b>0.061</b>	<b>J D</b>	0.19	0.035	ug/L		10/21/13 16:12	10/30/13 14:01	4
4,4'-DDD	0.19	U	0.19	0.025	ug/L		10/21/13 16:12	10/30/13 14:01	4
4,4'-DDE	0.19	U	0.19	0.030	ug/L		10/21/13 16:12	10/30/13 14:01	4
4,4'-DDT	0.19	U	0.19	0.038	ug/L		10/21/13 16:12	10/30/13 14:01	4
Endosulfan I	0.19	U	0.19	0.016	ug/L		10/21/13 16:12	10/30/13 14:01	4
Endosulfan II	0.19	U	0.19	0.038	ug/L		10/21/13 16:12	10/30/13 14:01	4

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
 Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-10S**  
**Date Collected: 10/15/13 12:49**  
**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-4**  
**Matrix: Water**

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.19	U	0.19	0.026	ug/L		10/21/13 16:12	10/30/13 14:01	4
Endrin	0.19	U	0.19	0.038	ug/L		10/21/13 16:12	10/30/13 14:01	4
Endrin aldehyde	0.19	U	0.19	0.062	ug/L		10/21/13 16:12	10/30/13 14:01	4
<b>Endrin ketone</b>	<b>0.14</b>	<b>J D</b>	0.19	0.033	ug/L		10/21/13 16:12	10/30/13 14:01	4
Heptachlor	0.19	U	0.19	0.027	ug/L		10/21/13 16:12	10/30/13 14:01	4
Heptachlor epoxide	0.19	U	0.19	0.023	ug/L		10/21/13 16:12	10/30/13 14:01	4
Methoxychlor	0.19	U	0.19	0.050	ug/L		10/21/13 16:12	10/30/13 14:01	4
Toxaphene	19	U	19	1.9	ug/L		10/21/13 16:12	10/30/13 14:01	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		22 - 130				10/21/13 16:12	10/30/13 14:01	4
Tetrachloro-m-xylene	58		53 - 130				10/21/13 16:12	10/30/13 14:01	4

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-16S**

**Lab Sample ID: 680-95286-5**

**Matrix: Water**

Date Collected: 10/15/13 10:21

Date Received: 10/18/13 09:34

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/19/13 18:44	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	106		70 - 130				Prepared	10/19/13 18:44	1
4-Bromofluorobenzene	98		70 - 130					10/19/13 18:44	1
Dibromofluoromethane	106		70 - 130					10/19/13 18:44	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.052	U	0.052	0.0073	ug/L		10/21/13 16:12	10/23/13 23:05	1
alpha-BHC	0.052	U	0.052	0.0059	ug/L		10/21/13 16:12	10/23/13 23:05	1
beta-BHC	0.052	U	0.052	0.0070	ug/L		10/21/13 16:12	10/23/13 23:05	1
delta-BHC	0.052	U	0.052	0.0050	ug/L		10/21/13 16:12	10/23/13 23:05	1
gamma-BHC (Lindane)	0.052	U	0.052	0.0061	ug/L		10/21/13 16:12	10/23/13 23:05	1
alpha-Chlordane	0.052	U	0.052	0.0062	ug/L		10/21/13 16:12	10/23/13 23:05	1
gamma-Chlordane	0.052	U	0.052	0.0053	ug/L		10/21/13 16:12	10/23/13 23:05	1
Dieldrin	0.052	U	0.052	0.0094	ug/L		10/21/13 16:12	10/23/13 23:05	1
4,4'-DDD	0.052	U	0.052	0.0067	ug/L		10/21/13 16:12	10/23/13 23:05	1
4,4'-DDE	0.052	U	0.052	0.0080	ug/L		10/21/13 16:12	10/23/13 23:05	1
4,4'-DDT	0.052	U	0.052	0.010	ug/L		10/21/13 16:12	10/23/13 23:05	1
Endosulfan I	0.052	U	0.052	0.0044	ug/L		10/21/13 16:12	10/23/13 23:05	1
Endosulfan II	0.052	U	0.052	0.010	ug/L		10/21/13 16:12	10/23/13 23:05	1
Endosulfan sulfate	0.052	U	0.052	0.0071	ug/L		10/21/13 16:12	10/23/13 23:05	1
Endrin	0.052	U	0.052	0.010	ug/L		10/21/13 16:12	10/23/13 23:05	1
Endrin aldehyde	0.052	U	0.052	0.017	ug/L		10/21/13 16:12	10/23/13 23:05	1
Endrin ketone	0.052	U	0.052	0.0087	ug/L		10/21/13 16:12	10/23/13 23:05	1
Heptachlor	0.052	U	0.052	0.0073	ug/L		10/21/13 16:12	10/23/13 23:05	1
Heptachlor epoxide	0.052	U	0.052	0.0062	ug/L		10/21/13 16:12	10/23/13 23:05	1
Methoxychlor	0.052	U	0.052	0.013	ug/L		10/21/13 16:12	10/23/13 23:05	1
Toxaphene	5.2	U	5.2	0.52	ug/L		10/21/13 16:12	10/23/13 23:05	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	49		22 - 130				Prepared	10/21/13 16:12	10/23/13 23:05
Tetrachloro-m-xylene	73		53 - 130					10/21/13 16:12	10/23/13 23:05

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-17S**

**Lab Sample ID: 680-95286-6**

**Matrix: Water**

Date Collected: 10/15/13 11:07

Date Received: 10/18/13 09:34

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/19/13 19:13	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	103		70 - 130				Prepared	10/19/13 19:13	1
4-Bromofluorobenzene	95		70 - 130					10/19/13 19:13	1
Dibromofluoromethane	105		70 - 130					10/19/13 19:13	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/23/13 23:28	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		10/21/13 16:12	10/23/13 23:28	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/21/13 16:12	10/23/13 23:28	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/21/13 16:12	10/23/13 23:28	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/23/13 23:28	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/21/13 16:12	10/23/13 23:28	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/21/13 16:12	10/23/13 23:28	1
Dieldrin	0.048	U	0.048	0.0088	ug/L		10/21/13 16:12	10/23/13 23:28	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		10/21/13 16:12	10/23/13 23:28	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/21/13 16:12	10/23/13 23:28	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/23/13 23:28	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/21/13 16:12	10/23/13 23:28	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/21/13 16:12	10/23/13 23:28	1
Endosulfan sulfate	0.048	U	0.048	0.0066	ug/L		10/21/13 16:12	10/23/13 23:28	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/23/13 23:28	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/21/13 16:12	10/23/13 23:28	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L		10/21/13 16:12	10/23/13 23:28	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/23/13 23:28	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/21/13 16:12	10/23/13 23:28	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		10/21/13 16:12	10/23/13 23:28	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/21/13 16:12	10/23/13 23:28	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	59		22 - 130				Prepared	10/21/13 16:12	1
Tetrachloro-m-xylene	72		53 - 130					10/21/13 16:12	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-18S**

**Lab Sample ID: 680-95286-7**

**Matrix: Water**

Date Collected: 10/15/13 11:43

Date Received: 10/18/13 09:34

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/19/13 19:43	1
<b>Surrogate</b>									
Toluene-d8 (Surr)	104		70 - 130				Prepared	10/19/13 19:43	1
4-Bromofluorobenzene	99		70 - 130					10/19/13 19:43	1
Dibromofluoromethane	106		70 - 130					10/19/13 19:43	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.052	U	0.052	0.0073	ug/L		10/21/13 16:12	10/23/13 23:51	1
alpha-BHC	0.052	U	0.052	0.0059	ug/L		10/21/13 16:12	10/23/13 23:51	1
beta-BHC	0.052	U	0.052	0.0070	ug/L		10/21/13 16:12	10/23/13 23:51	1
delta-BHC	0.052	U	0.052	0.0050	ug/L		10/21/13 16:12	10/23/13 23:51	1
gamma-BHC (Lindane)	0.052	U	0.052	0.0061	ug/L		10/21/13 16:12	10/23/13 23:51	1
alpha-Chlordane	0.052	U	0.052	0.0062	ug/L		10/21/13 16:12	10/23/13 23:51	1
gamma-Chlordane	0.052	U	0.052	0.0053	ug/L		10/21/13 16:12	10/23/13 23:51	1
Dieldrin	0.052	U	0.052	0.0094	ug/L		10/21/13 16:12	10/23/13 23:51	1
4,4'-DDD	0.052	U	0.052	0.0067	ug/L		10/21/13 16:12	10/23/13 23:51	1
4,4'-DDE	0.052	U	0.052	0.0080	ug/L		10/21/13 16:12	10/23/13 23:51	1
4,4'-DDT	0.052	U	0.052	0.010	ug/L		10/21/13 16:12	10/23/13 23:51	1
Endosulfan I	0.052	U	0.052	0.0044	ug/L		10/21/13 16:12	10/23/13 23:51	1
Endosulfan II	0.052	U	0.052	0.010	ug/L		10/21/13 16:12	10/23/13 23:51	1
Endosulfan sulfate	0.052	U	0.052	0.0071	ug/L		10/21/13 16:12	10/23/13 23:51	1
Endrin	0.052	U	0.052	0.010	ug/L		10/21/13 16:12	10/23/13 23:51	1
Endrin aldehyde	0.052	U	0.052	0.017	ug/L		10/21/13 16:12	10/23/13 23:51	1
Endrin ketone	0.052	U	0.052	0.0087	ug/L		10/21/13 16:12	10/23/13 23:51	1
Heptachlor	0.052	U	0.052	0.0073	ug/L		10/21/13 16:12	10/23/13 23:51	1
Heptachlor epoxide	0.052	U	0.052	0.0062	ug/L		10/21/13 16:12	10/23/13 23:51	1
Methoxychlor	0.052	U	0.052	0.013	ug/L		10/21/13 16:12	10/23/13 23:51	1
Toxaphene	5.2	U	5.2	0.52	ug/L		10/21/13 16:12	10/23/13 23:51	1
<b>Surrogate</b>									
DCB Decachlorobiphenyl	65		22 - 130				Prepared	10/21/13 16:12	1
Tetrachloro-m-xylene	62		53 - 130					10/21/13 16:12	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-16D**

**Lab Sample ID: 680-95286-8**

Date Collected: 10/16/13 11:55

Matrix: Water

Date Received: 10/18/13 09:34

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	62		1.0	0.13	ug/L			10/19/13 20:12	1
<hr/>									
<b>Surrogate</b>									
Toluene-d8 (Surr)	101		70 - 130				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130					10/19/13 20:12	1
Dibromofluoromethane	102		70 - 130					10/19/13 20:12	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-17D**

**Lab Sample ID: 680-95286-9**

Date Collected: 10/16/13 12:15

Matrix: Water

Date Received: 10/18/13 09:34

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	80		1.0	0.13	ug/L			10/19/13 20:42	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130					10/19/13 20:42	1
4-Bromofluorobenzene	97		70 - 130					10/19/13 20:42	1
Dibromofluoromethane	104		70 - 130					10/19/13 20:42	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## Client Sample ID: MW-18D

Date Collected: 10/16/13 10:08

Date Received: 10/18/13 09:34

## Lab Sample ID: 680-95286-10

Matrix: Water

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	23		1.0	0.13	ug/L			10/19/13 21:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	105		70 - 130					10/19/13 21:11	1
4-Bromofluorobenzene	98		70 - 130					10/19/13 21:11	1
Dibromofluoromethane	102		70 - 130					10/19/13 21:11	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>alpha-BHC</b>	<b>0.19</b>		0.048	0.0055	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>beta-BHC</b>	<b>1.7 E *</b>		0.048	0.0064	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>delta-BHC</b>	<b>0.55</b>		0.048	0.0046	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>gamma-BHC (Lindane)</b>	<b>0.21</b>		0.048	0.0056	ug/L		10/21/13 16:12	10/24/13 00:14	1
alpha-Chlordane	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/24/13 00:14	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>Dieldrin</b>	<b>0.15</b>		0.048	0.0087	ug/L		10/21/13 16:12	10/24/13 00:14	1
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		10/21/13 16:12	10/24/13 00:14	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/21/13 16:12	10/24/13 00:14	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/24/13 00:14	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/21/13 16:12	10/24/13 00:14	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/21/13 16:12	10/24/13 00:14	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/21/13 16:12	10/24/13 00:14	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/24/13 00:14	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>Endrin ketone</b>	<b>0.13</b>		0.048	0.0080	ug/L		10/21/13 16:12	10/24/13 00:14	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/24/13 00:14	1
Heptachlor epoxide	0.048	U	0.048	0.0057	ug/L		10/21/13 16:12	10/24/13 00:14	1
Methoxychlor	0.048	U	0.048	0.012	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>Toxaphene</b>	<b>1.5 J p</b>		4.8	0.48	ug/L		10/21/13 16:12	10/24/13 00:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	75		22 - 130				10/21/13 16:12	10/24/13 00:14	1
Tetrachloro-m-xylene	68		53 - 130				10/21/13 16:12	10/24/13 00:14	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.48	U	0.48	0.067	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>alpha-BHC</b>	<b>0.18 J D</b>		0.48	0.055	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>beta-BHC</b>	<b>1.6 D</b>		0.48	0.064	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>delta-BHC</b>	<b>0.44 J D</b>		0.48	0.046	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>gamma-BHC (Lindane)</b>	<b>0.18 J D</b>		0.48	0.056	ug/L		10/21/13 16:12	10/30/13 14:23	10
alpha-Chlordane	0.48	U	0.48	0.057	ug/L		10/21/13 16:12	10/30/13 14:23	10
gamma-Chlordane	0.48	U	0.48	0.049	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>Dieldrin</b>	<b>0.094 J D</b>		0.48	0.087	ug/L		10/21/13 16:12	10/30/13 14:23	10
4,4'-DDD	0.48	U	0.48	0.062	ug/L		10/21/13 16:12	10/30/13 14:23	10
4,4'-DDE	0.48	U	0.48	0.074	ug/L		10/21/13 16:12	10/30/13 14:23	10
4,4'-DDT	0.48	U	0.48	0.093	ug/L		10/21/13 16:12	10/30/13 14:23	10
Endosulfan I	0.48	U	0.48	0.040	ug/L		10/21/13 16:12	10/30/13 14:23	10
Endosulfan II	0.48	U	0.48	0.094	ug/L		10/21/13 16:12	10/30/13 14:23	10

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
 Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-18D**  
**Date Collected: 10/16/13 10:08**  
**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-10**  
**Matrix: Water**

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.48	U	0.48	0.065	ug/L		10/21/13 16:12	10/30/13 14:23	10
Endrin	0.48	U	0.48	0.093	ug/L		10/21/13 16:12	10/30/13 14:23	10
Endrin aldehyde	0.48	U	0.48	0.15	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>Endrin ketone</b>	<b>0.11</b>	<b>J D</b>	0.48	0.080	ug/L		10/21/13 16:12	10/30/13 14:23	10
Heptachlor	0.48	U	0.48	0.067	ug/L		10/21/13 16:12	10/30/13 14:23	10
Heptachlor epoxide	0.48	U	0.48	0.057	ug/L		10/21/13 16:12	10/30/13 14:23	10
Methoxychlor	0.48	U	0.48	0.12	ug/L		10/21/13 16:12	10/30/13 14:23	10
Toxaphene	48	U	48	4.8	ug/L		10/21/13 16:12	10/30/13 14:23	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	0	D		22 - 130			10/21/13 16:12	10/30/13 14:23	10
Tetrachloro-m-xylene	0	D		53 - 130			10/21/13 16:12	10/30/13 14:23	10

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-22D**

**Lab Sample ID: 680-95286-11**

**Matrix: Water**

Date Collected: 10/16/13 13:49

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>alpha-BHC</b>	<b>0.030</b>	<b>J</b>	0.048	0.0055	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>beta-BHC</b>	<b>0.17</b>	<b>p</b>	0.048	0.0064	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>delta-BHC</b>	<b>0.097</b>		0.048	0.0046	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>gamma-BHC (Lindane)</b>	<b>0.024</b>	<b>J</b>	0.048	0.0057	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>alpha-Chlordane</b>	<b>0.0074</b>	<b>J p</b>	0.048	0.0058	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>gamma-Chlordane</b>	<b>0.010</b>	<b>J</b>	0.048	0.0049	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>Dieldrin</b>	<b>0.018</b>	<b>J</b>	0.048	0.0087	ug/L		10/21/13 16:12	10/24/13 00:36	1
4,4'-DDD	0.048	U	0.048	0.0062	ug/L		10/21/13 16:12	10/24/13 00:36	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/21/13 16:12	10/24/13 00:36	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/24/13 00:36	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/21/13 16:12	10/24/13 00:36	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/21/13 16:12	10/24/13 00:36	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/21/13 16:12	10/24/13 00:36	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/24/13 00:36	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>Endrin ketone</b>	<b>0.018</b>	<b>J</b>	0.048	0.0081	ug/L		10/21/13 16:12	10/24/13 00:36	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/24/13 00:36	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/21/13 16:12	10/24/13 00:36	1
Methoxychlor	0.048	U	0.048	0.012	ug/L		10/21/13 16:12	10/24/13 00:36	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/21/13 16:12	10/24/13 00:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	77			22 - 130			10/21/13 16:12	10/24/13 00:36	1
Tetrachloro-m-xylene	71			53 - 130			10/21/13 16:12	10/24/13 00:36	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
 Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-23D**

**Lab Sample ID: 680-95286-12**

**Matrix: Water**

Date Collected: 10/16/13 14:32

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/21/13 16:12	10/24/13 03:16	1
<b>alpha-BHC</b>	<b>0.047</b>	<b>J</b>	0.051	0.0058	ug/L		10/21/13 16:12	10/24/13 03:16	1
<b>beta-BHC</b>	<b>0.037</b>	<b>J p</b>	0.051	0.0068	ug/L		10/21/13 16:12	10/24/13 03:16	1
<b>delta-BHC</b>	<b>0.012</b>	<b>J p</b>	0.051	0.0049	ug/L		10/21/13 16:12	10/24/13 03:16	1
<b>gamma-BHC (Lindane)</b>	<b>0.033</b>	<b>J</b>	0.051	0.0060	ug/L		10/21/13 16:12	10/24/13 03:16	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/21/13 16:12	10/24/13 03:16	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/21/13 16:12	10/24/13 03:16	1
Dieldrin	0.051	U	0.051	0.0092	ug/L		10/21/13 16:12	10/24/13 03:16	1
4,4'-DDD	0.051	U	0.051	0.0066	ug/L		10/21/13 16:12	10/24/13 03:16	1
4,4'-DDE	0.051	U	0.051	0.0078	ug/L		10/21/13 16:12	10/24/13 03:16	1
4,4'-DDT	0.051	U	0.051	0.0098	ug/L		10/21/13 16:12	10/24/13 03:16	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/21/13 16:12	10/24/13 03:16	1
Endosulfan II	0.051	U	0.051	0.0099	ug/L		10/21/13 16:12	10/24/13 03:16	1
Endosulfan sulfate	0.051	U	0.051	0.0069	ug/L		10/21/13 16:12	10/24/13 03:16	1
Endrin	0.051	U	0.051	0.0098	ug/L		10/21/13 16:12	10/24/13 03:16	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/21/13 16:12	10/24/13 03:16	1
Endrin ketone	0.051	U	0.051	0.0085	ug/L		10/21/13 16:12	10/24/13 03:16	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/21/13 16:12	10/24/13 03:16	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/21/13 16:12	10/24/13 03:16	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/21/13 16:12	10/24/13 03:16	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/21/13 16:12	10/24/13 03:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	52		22 - 130				10/21/13 16:12	10/24/13 03:16	1
Tetrachloro-m-xylene	59		53 - 130				10/21/13 16:12	10/24/13 03:16	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
 Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-26D**

**Lab Sample ID: 680-95286-13**

**Matrix: Water**

Date Collected: 10/17/13 15:38

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/24/13 03:38	1
<b>alpha-BHC</b>	<b>0.013</b>	<b>J</b>	0.048	0.0055	ug/L		10/21/13 16:12	10/24/13 03:38	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/21/13 16:12	10/24/13 03:38	1
<b>delta-BHC</b>	<b>0.0088</b>	<b>J p</b>	0.048	0.0046	ug/L		10/21/13 16:12	10/24/13 03:38	1
<b>gamma-BHC (Lindane)</b>	<b>0.022</b>	<b>J</b>	0.048	0.0057	ug/L		10/21/13 16:12	10/24/13 03:38	1
<b>alpha-Chlordane</b>	<b>0.021</b>	<b>J</b>	0.048	0.0058	ug/L		10/21/13 16:12	10/24/13 03:38	1
<b>gamma-Chlordane</b>	<b>0.0081</b>	<b>J p</b>	0.048	0.0049	ug/L		10/21/13 16:12	10/24/13 03:38	1
Dieldrin	0.048	U	0.048	0.0088	ug/L		10/21/13 16:12	10/24/13 03:38	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		10/21/13 16:12	10/24/13 03:38	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/21/13 16:12	10/24/13 03:38	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/24/13 03:38	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/21/13 16:12	10/24/13 03:38	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/21/13 16:12	10/24/13 03:38	1
Endosulfan sulfate	0.048	U	0.048	0.0066	ug/L		10/21/13 16:12	10/24/13 03:38	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/21/13 16:12	10/24/13 03:38	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/21/13 16:12	10/24/13 03:38	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L		10/21/13 16:12	10/24/13 03:38	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/21/13 16:12	10/24/13 03:38	1
<b>Heptachlor epoxide</b>	<b>0.020</b>	<b>J</b>	0.048	0.0058	ug/L		10/21/13 16:12	10/24/13 03:38	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		10/21/13 16:12	10/24/13 03:38	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/21/13 16:12	10/24/13 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		22 - 130				10/21/13 16:12	10/24/13 03:38	1
Tetrachloro-m-xylene	59		53 - 130				10/21/13 16:12	10/24/13 03:38	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## Client Sample ID: MW-30D

Date Collected: 10/16/13 10:55

Date Received: 10/18/13 09:34

## Lab Sample ID: 680-95286-14

Matrix: Water

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.21	J	1.0	0.13	ug/L			10/19/13 21:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	104		70 - 130					10/19/13 21:41	1
4-Bromofluorobenzene	94		70 - 130					10/19/13 21:41	1
Dibromofluoromethane	100		70 - 130					10/19/13 21:41	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>alpha-BHC</b>	<b>0.12</b>		0.049	0.0055	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>beta-BHC</b>	<b>2.4 E p</b>		0.049	0.0065	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>delta-BHC</b>	<b>1.1 E p</b>		0.049	0.0047	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>gamma-BHC (Lindane)</b>	<b>0.068 p</b>		0.049	0.0057	ug/L		10/21/13 16:12	10/24/13 04:01	1
alpha-Chlordane	0.049	U	0.049	0.0058	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>gamma-Chlordane</b>	<b>0.065 p</b>		0.049	0.0050	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>Dieldrin</b>	<b>0.21 p</b>		0.049	0.0088	ug/L		10/21/13 16:12	10/24/13 04:01	1
4,4'-DDD	0.049	U	0.049	0.0063	ug/L		10/21/13 16:12	10/24/13 04:01	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/21/13 16:12	10/24/13 04:01	1
4,4'-DDT	0.049	U	0.049	0.0094	ug/L		10/21/13 16:12	10/24/13 04:01	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/21/13 16:12	10/24/13 04:01	1
Endosulfan II	0.049	U	0.049	0.0095	ug/L		10/21/13 16:12	10/24/13 04:01	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/21/13 16:12	10/24/13 04:01	1
Endrin	0.049	U	0.049	0.0094	ug/L		10/21/13 16:12	10/24/13 04:01	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>Endrin ketone</b>	<b>0.24</b>		0.049	0.0082	ug/L		10/21/13 16:12	10/24/13 04:01	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/21/13 16:12	10/24/13 04:01	1
Heptachlor epoxide	0.049	U	0.049	0.0058	ug/L		10/21/13 16:12	10/24/13 04:01	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>Toxaphene</b>	<b>3.7 J p</b>		4.9	0.49	ug/L		10/21/13 16:12	10/24/13 04:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	71		22 - 130				10/21/13 16:12	10/24/13 04:01	1
Tetrachloro-m-xylene	57		53 - 130				10/21/13 16:12	10/24/13 04:01	1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.49	U	0.49	0.068	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>alpha-BHC</b>	<b>0.17 J</b>		0.49	0.055	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>beta-BHC</b>	<b>3.9</b>		0.49	0.065	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>delta-BHC</b>	<b>1.5</b>		0.49	0.047	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>gamma-BHC (Lindane)</b>	<b>0.11 J p</b>		0.49	0.057	ug/L		10/21/13 16:12	10/24/13 04:24	10
alpha-Chlordane	0.49	U	0.49	0.058	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>gamma-Chlordane</b>	<b>0.085 J</b>		0.49	0.050	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>Dieldrin</b>	<b>0.40 J</b>		0.49	0.088	ug/L		10/21/13 16:12	10/24/13 04:24	10
4,4'-DDD	0.49	U	0.49	0.063	ug/L		10/21/13 16:12	10/24/13 04:24	10
4,4'-DDE	0.49	U	0.49	0.075	ug/L		10/21/13 16:12	10/24/13 04:24	10
4,4'-DDT	0.49	U	0.49	0.094	ug/L		10/21/13 16:12	10/24/13 04:24	10
Endosulfan I	0.49	U	0.49	0.041	ug/L		10/21/13 16:12	10/24/13 04:24	10
Endosulfan II	0.49	U	0.49	0.095	ug/L		10/21/13 16:12	10/24/13 04:24	10

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
 Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-30D**  
**Date Collected: 10/16/13 10:55**  
**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-14**  
**Matrix: Water**

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

(Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	0.49	U	0.49	0.066	ug/L		10/21/13 16:12	10/24/13 04:24	10
Endrin	0.49	U	0.49	0.094	ug/L		10/21/13 16:12	10/24/13 04:24	10
Endrin aldehyde	0.49	U	0.49	0.16	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>Endrin ketone</b>	<b>0.24</b>	<b>J</b>	0.49	0.082	ug/L		10/21/13 16:12	10/24/13 04:24	10
Heptachlor	0.49	U	0.49	0.068	ug/L		10/21/13 16:12	10/24/13 04:24	10
Heptachlor epoxide	0.49	U	0.49	0.058	ug/L		10/21/13 16:12	10/24/13 04:24	10
Methoxychlor	0.49	U	0.49	0.13	ug/L		10/21/13 16:12	10/24/13 04:24	10
<b>Toxaphene</b>	<b>4.9</b>	<b>J p</b>	49	4.9	ug/L		10/21/13 16:12	10/24/13 04:24	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	22 - 130				10/21/13 16:12	10/24/13 04:24	10
Tetrachloro-m-xylene	0	D	53 - 130				10/21/13 16:12	10/24/13 04:24	10

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-22L**

**Lab Sample ID: 680-95286-15**

**Matrix: Water**

Date Collected: 10/16/13 13:30

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>alpha-BHC</b>	<b>0.20</b>		0.050	0.0057	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>beta-BHC</b>	<b>0.82 E *</b>		0.050	0.0067	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>delta-BHC</b>	<b>0.53</b>		0.050	0.0048	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>gamma-BHC (Lindane)</b>	<b>0.18</b>		0.050	0.0059	ug/L		10/21/13 16:12	10/24/13 04:46	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/21/13 16:12	10/24/13 04:46	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>Dieldrin</b>	<b>0.094</b>		0.050	0.0091	ug/L		10/21/13 16:12	10/24/13 04:46	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/21/13 16:12	10/24/13 04:46	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/21/13 16:12	10/24/13 04:46	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/21/13 16:12	10/24/13 04:46	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/21/13 16:12	10/24/13 04:46	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/21/13 16:12	10/24/13 04:46	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/21/13 16:12	10/24/13 04:46	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/21/13 16:12	10/24/13 04:46	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>Endrin ketone</b>	<b>0.064</b>		0.050	0.0084	ug/L		10/21/13 16:12	10/24/13 04:46	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/21/13 16:12	10/24/13 04:46	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/21/13 16:12	10/24/13 04:46	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>Toxaphene</b>	<b>1.1 J p</b>		5.0	0.50	ug/L		10/21/13 16:12	10/24/13 04:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	66		22 - 130				10/21/13 16:12	10/24/13 04:46	1
Tetrachloro-m-xylene	67		53 - 130				10/21/13 16:12	10/24/13 04:46	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.10	U	0.10	0.014	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>alpha-BHC</b>	<b>0.19 D</b>		0.10	0.011	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>beta-BHC</b>	<b>0.76 D</b>		0.10	0.013	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>delta-BHC</b>	<b>0.40 D</b>		0.10	0.0096	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>gamma-BHC (Lindane)</b>	<b>0.16 D</b>		0.10	0.012	ug/L		10/21/13 16:12	10/30/13 14:46	2
alpha-Chlordane	0.10	U	0.10	0.012	ug/L		10/21/13 16:12	10/30/13 14:46	2
gamma-Chlordane	0.10	U	0.10	0.010	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>Dieldrin</b>	<b>0.057 J D</b>		0.10	0.018	ug/L		10/21/13 16:12	10/30/13 14:46	2
4,4'-DDD	0.10	U	0.10	0.013	ug/L		10/21/13 16:12	10/30/13 14:46	2
4,4'-DDE	0.10	U	0.10	0.015	ug/L		10/21/13 16:12	10/30/13 14:46	2
4,4'-DDT	0.10	U	0.10	0.019	ug/L		10/21/13 16:12	10/30/13 14:46	2
Endosulfan I	0.10	U	0.10	0.0084	ug/L		10/21/13 16:12	10/30/13 14:46	2
Endosulfan II	0.10	U	0.10	0.020	ug/L		10/21/13 16:12	10/30/13 14:46	2
Endosulfan sulfate	0.10	U	0.10	0.014	ug/L		10/21/13 16:12	10/30/13 14:46	2
Endrin	0.10	U	0.10	0.019	ug/L		10/21/13 16:12	10/30/13 14:46	2
Endrin aldehyde	0.10	U	0.10	0.032	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>Endrin ketone</b>	<b>0.050 J</b>		0.10	0.017	ug/L		10/21/13 16:12	10/30/13 14:46	2
Heptachlor	0.10	U	0.10	0.014	ug/L		10/21/13 16:12	10/30/13 14:46	2
Heptachlor epoxide	0.10	U	0.10	0.012	ug/L		10/21/13 16:12	10/30/13 14:46	2
<b>Methoxychlor</b>	<b>0.036 J</b>		0.10	0.026	ug/L		10/21/13 16:12	10/30/13 14:46	2
Toxaphene	10	U	10	1.0	ug/L		10/21/13 16:12	10/30/13 14:46	2

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-22L**

**Date Collected: 10/16/13 13:30**

**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-15**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		22 - 130	10/21/13 16:12	10/30/13 14:46	2
Tetrachloro-m-xylene	65		53 - 130	10/21/13 16:12	10/30/13 14:46	2

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-25L**

Date Collected: 10/16/13 15:26

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-16**

Matrix: Water

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>alpha-BHC</b>	<b>0.93</b>	<b>E</b>	0.051	0.0058	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>beta-BHC</b>	<b>0.64</b>		0.051	0.0068	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>delta-BHC</b>	<b>1.4</b>	<b>E</b>	0.051	0.0049	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>gamma-BHC (Lindane)</b>	<b>0.13</b>		0.051	0.0060	ug/L		10/21/13 16:12	10/24/13 05:09	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/21/13 16:12	10/24/13 05:09	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>Dieldrin</b>	<b>0.028</b>	<b>J</b>	0.051	0.0092	ug/L		10/21/13 16:12	10/24/13 05:09	1
4,4'-DDD	0.051	U	0.051	0.0066	ug/L		10/21/13 16:12	10/24/13 05:09	1
4,4'-DDE	0.051	U	0.051	0.0078	ug/L		10/21/13 16:12	10/24/13 05:09	1
4,4'-DDT	0.051	U	0.051	0.0098	ug/L		10/21/13 16:12	10/24/13 05:09	1
Endosulfan I	0.051	U	0.051	0.0042	ug/L		10/21/13 16:12	10/24/13 05:09	1
Endosulfan II	0.051	U	0.051	0.0099	ug/L		10/21/13 16:12	10/24/13 05:09	1
Endosulfan sulfate	0.051	U	0.051	0.0069	ug/L		10/21/13 16:12	10/24/13 05:09	1
Endrin	0.051	U	0.051	0.0098	ug/L		10/21/13 16:12	10/24/13 05:09	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>Endrin ketone</b>	<b>0.033</b>	<b>J</b>	0.051	0.0085	ug/L		10/21/13 16:12	10/24/13 05:09	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/21/13 16:12	10/24/13 05:09	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/21/13 16:12	10/24/13 05:09	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/21/13 16:12	10/24/13 05:09	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/21/13 16:12	10/24/13 05:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	57		22 - 130				10/21/13 16:12	10/24/13 05:09	1
Tetrachloro-m-xylene	64		53 - 130				10/21/13 16:12	10/24/13 05:09	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.20	U	0.20	0.028	ug/L		10/21/13 16:12	10/24/13 05:32	4
<b>alpha-BHC</b>	<b>0.80</b>		0.20	0.023	ug/L		10/21/13 16:12	10/24/13 05:32	4
<b>beta-BHC</b>	<b>0.65</b>		0.20	0.027	ug/L		10/21/13 16:12	10/24/13 05:32	4
<b>delta-BHC</b>	<b>1.2</b>		0.20	0.019	ug/L		10/21/13 16:12	10/24/13 05:32	4
<b>gamma-BHC (Lindane)</b>	<b>0.14</b>	<b>J</b>	0.20	0.024	ug/L		10/21/13 16:12	10/24/13 05:32	4
alpha-Chlordane	0.20	U	0.20	0.024	ug/L		10/21/13 16:12	10/24/13 05:32	4
gamma-Chlordane	0.20	U	0.20	0.021	ug/L		10/21/13 16:12	10/24/13 05:32	4
Dieldrin	0.20	U	0.20	0.037	ug/L		10/21/13 16:12	10/24/13 05:32	4
4,4'-DDD	0.20	U	0.20	0.026	ug/L		10/21/13 16:12	10/24/13 05:32	4
4,4'-DDE	0.20	U	0.20	0.031	ug/L		10/21/13 16:12	10/24/13 05:32	4
4,4'-DDT	0.20	U	0.20	0.039	ug/L		10/21/13 16:12	10/24/13 05:32	4
Endosulfan I	0.20	U	0.20	0.017	ug/L		10/21/13 16:12	10/24/13 05:32	4
Endosulfan II	0.20	U	0.20	0.040	ug/L		10/21/13 16:12	10/24/13 05:32	4
Endosulfan sulfate	0.20	U	0.20	0.028	ug/L		10/21/13 16:12	10/24/13 05:32	4
Endrin	0.20	U	0.20	0.039	ug/L		10/21/13 16:12	10/24/13 05:32	4
Endrin aldehyde	0.20	U	0.20	0.065	ug/L		10/21/13 16:12	10/24/13 05:32	4
Endrin ketone	0.20	U	0.20	0.034	ug/L		10/21/13 16:12	10/24/13 05:32	4
Heptachlor	0.20	U	0.20	0.028	ug/L		10/21/13 16:12	10/24/13 05:32	4
Heptachlor epoxide	0.20	U	0.20	0.024	ug/L		10/21/13 16:12	10/24/13 05:32	4
Methoxychlor	0.20	U	0.20	0.053	ug/L		10/21/13 16:12	10/24/13 05:32	4
Toxaphene	20	U	20	2.0	ug/L		10/21/13 16:12	10/24/13 05:32	4

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-25L**

**Date Collected: 10/16/13 15:26**

**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-16**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		22 - 130	10/21/13 16:12	10/24/13 05:32	4
Tetrachloro-m-xylene	70		53 - 130	10/21/13 16:12	10/24/13 05:32	4

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-27L**

**Lab Sample ID: 680-95286-17**

**Matrix: Water**

Date Collected: 10/17/13 10:59

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.018	J p	0.047	0.0066	ug/L		10/21/13 16:12	10/24/13 05:55	1
alpha-BHC	1.3	E	0.047	0.0054	ug/L		10/21/13 16:12	10/24/13 05:55	1
beta-BHC	2.4	E *	0.047	0.0064	ug/L		10/21/13 16:12	10/24/13 05:55	1
delta-BHC	2.4	E p	0.047	0.0046	ug/L		10/21/13 16:12	10/24/13 05:55	1
gamma-BHC (Lindane)	0.21		0.047	0.0056	ug/L		10/21/13 16:12	10/24/13 05:55	1
alpha-Chlordane	0.047	U	0.047	0.0057	ug/L		10/21/13 16:12	10/24/13 05:55	1
gamma-Chlordane	0.047	U	0.047	0.0048	ug/L		10/21/13 16:12	10/24/13 05:55	1
Dieldrin	0.17		0.047	0.0086	ug/L		10/21/13 16:12	10/24/13 05:55	1
4,4'-DDD	0.047	U	0.047	0.0062	ug/L		10/21/13 16:12	10/24/13 05:55	1
4,4'-DDE	0.047	U	0.047	0.0073	ug/L		10/21/13 16:12	10/24/13 05:55	1
4,4'-DDT	0.047	U	0.047	0.0092	ug/L		10/21/13 16:12	10/24/13 05:55	1
Endosulfan I	0.047	U	0.047	0.0040	ug/L		10/21/13 16:12	10/24/13 05:55	1
Endosulfan II	0.047	U	0.047	0.0093	ug/L		10/21/13 16:12	10/24/13 05:55	1
Endosulfan sulfate	0.047	U	0.047	0.0065	ug/L		10/21/13 16:12	10/24/13 05:55	1
Endrin	0.047	U	0.047	0.0092	ug/L		10/21/13 16:12	10/24/13 05:55	1
Endrin aldehyde	0.047	U	0.047	0.015	ug/L		10/21/13 16:12	10/24/13 05:55	1
Endrin ketone	0.23		0.047	0.0080	ug/L		10/21/13 16:12	10/24/13 05:55	1
Heptachlor	0.047	U	0.047	0.0066	ug/L		10/21/13 16:12	10/24/13 05:55	1
Heptachlor epoxide	0.047	U	0.047	0.0057	ug/L		10/21/13 16:12	10/24/13 05:55	1
Methoxychlor	0.047	U	0.047	0.012	ug/L		10/21/13 16:12	10/24/13 05:55	1
Toxaphene	2.1	J p	4.7	0.47	ug/L		10/21/13 16:12	10/24/13 05:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	68		22 - 130				10/21/13 16:12	10/24/13 05:55	1
Tetrachloro-m-xylene	62		53 - 130				10/21/13 16:12	10/24/13 05:55	1

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.47	U	0.47	0.066	ug/L		10/21/13 16:12	10/30/13 15:09	10
alpha-BHC	1.0	D	0.47	0.054	ug/L		10/21/13 16:12	10/30/13 15:09	10
beta-BHC	2.3	D	0.47	0.064	ug/L		10/21/13 16:12	10/30/13 15:09	10
delta-BHC	2.4	D	0.47	0.046	ug/L		10/21/13 16:12	10/30/13 15:09	10
gamma-BHC (Lindane)	0.17	J D	0.47	0.056	ug/L		10/21/13 16:12	10/30/13 15:09	10
alpha-Chlordane	0.47	U	0.47	0.057	ug/L		10/21/13 16:12	10/30/13 15:09	10
gamma-Chlordane	0.47	U	0.47	0.048	ug/L		10/21/13 16:12	10/30/13 15:09	10
Dieldrin	0.11	J D	0.47	0.086	ug/L		10/21/13 16:12	10/30/13 15:09	10
4,4'-DDD	0.47	U	0.47	0.062	ug/L		10/21/13 16:12	10/30/13 15:09	10
4,4'-DDE	0.47	U	0.47	0.073	ug/L		10/21/13 16:12	10/30/13 15:09	10
4,4'-DDT	0.47	U	0.47	0.092	ug/L		10/21/13 16:12	10/30/13 15:09	10
Endosulfan I	0.47	U	0.47	0.040	ug/L		10/21/13 16:12	10/30/13 15:09	10
Endosulfan II	0.47	U	0.47	0.093	ug/L		10/21/13 16:12	10/30/13 15:09	10
Endosulfan sulfate	0.47	U	0.47	0.065	ug/L		10/21/13 16:12	10/30/13 15:09	10
Endrin	0.47	U	0.47	0.092	ug/L		10/21/13 16:12	10/30/13 15:09	10
Endrin aldehyde	0.47	U	0.47	0.15	ug/L		10/21/13 16:12	10/30/13 15:09	10
Endrin ketone	0.18	J D	0.47	0.080	ug/L		10/21/13 16:12	10/30/13 15:09	10
Heptachlor	0.47	U	0.47	0.066	ug/L		10/21/13 16:12	10/30/13 15:09	10
Heptachlor epoxide	0.47	U	0.47	0.057	ug/L		10/21/13 16:12	10/30/13 15:09	10
Methoxychlor	0.47	U	0.47	0.12	ug/L		10/21/13 16:12	10/30/13 15:09	10
Toxaphene	47	U	47	4.7	ug/L		10/21/13 16:12	10/30/13 15:09	10

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-27L**

**Date Collected: 10/17/13 10:59**

**Date Received: 10/18/13 09:34**

**Lab Sample ID: 680-95286-17**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D	22 - 130	10/21/13 16:12	10/30/13 15:09	10
Tetrachloro-m-xylene	0	D	53 - 130	10/21/13 16:12	10/30/13 15:09	10

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-32L**

**Lab Sample ID: 680-95286-19**

**Matrix: Water**

Date Collected: 10/17/13 14:45

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0072	ug/L		10/21/13 16:12	10/24/13 06:40	1
alpha-BHC	0.051	U	0.051	0.0058	ug/L		10/21/13 16:12	10/24/13 06:40	1
beta-BHC	0.051	U	0.051	0.0069	ug/L		10/21/13 16:12	10/24/13 06:40	1
delta-BHC	0.051	U	0.051	0.0049	ug/L		10/21/13 16:12	10/24/13 06:40	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0061	ug/L		10/21/13 16:12	10/24/13 06:40	1
alpha-Chlordane	0.051	U	0.051	0.0062	ug/L		10/21/13 16:12	10/24/13 06:40	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/21/13 16:12	10/24/13 06:40	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		10/21/13 16:12	10/24/13 06:40	1
4,4'-DDD	0.051	U	0.051	0.0067	ug/L		10/21/13 16:12	10/24/13 06:40	1
4,4'-DDE	0.051	U	0.051	0.0079	ug/L		10/21/13 16:12	10/24/13 06:40	1
4,4'-DDT	0.051	U	0.051	0.010	ug/L		10/21/13 16:12	10/24/13 06:40	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/21/13 16:12	10/24/13 06:40	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		10/21/13 16:12	10/24/13 06:40	1
Endosulfan sulfate	0.051	U	0.051	0.0070	ug/L		10/21/13 16:12	10/24/13 06:40	1
Endrin	0.051	U	0.051	0.010	ug/L		10/21/13 16:12	10/24/13 06:40	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/21/13 16:12	10/24/13 06:40	1
Endrin ketone	0.051	U	0.051	0.0086	ug/L		10/21/13 16:12	10/24/13 06:40	1
Heptachlor	0.051	U	0.051	0.0072	ug/L		10/21/13 16:12	10/24/13 06:40	1
Heptachlor epoxide	0.051	U	0.051	0.0062	ug/L		10/21/13 16:12	10/24/13 06:40	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/21/13 16:12	10/24/13 06:40	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/21/13 16:12	10/24/13 06:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	64			22 - 130			10/21/13 16:12	10/24/13 06:40	1
Tetrachloro-m-xylene	66			53 - 130			10/21/13 16:12	10/24/13 06:40	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-36L**

**Lab Sample ID: 680-95286-20**

**Matrix: Water**

**Date Collected: 10/16/13 15:15**

**Date Received: 10/18/13 09:34**

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/21/13 16:12	10/24/13 07:03	1
alpha-BHC	0.049	U	0.049	0.0055	ug/L		10/21/13 16:12	10/24/13 07:03	1
beta-BHC	0.049	U	0.049	0.0065	ug/L		10/21/13 16:12	10/24/13 07:03	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		10/21/13 16:12	10/24/13 07:03	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0057	ug/L		10/21/13 16:12	10/24/13 07:03	1
alpha-Chlordane	0.049	U	0.049	0.0058	ug/L		10/21/13 16:12	10/24/13 07:03	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/21/13 16:12	10/24/13 07:03	1
Dieldrin	0.049	U	0.049	0.0088	ug/L		10/21/13 16:12	10/24/13 07:03	1
4,4'-DDD	0.049	U	0.049	0.0063	ug/L		10/21/13 16:12	10/24/13 07:03	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/21/13 16:12	10/24/13 07:03	1
4,4'-DDT	0.049	U	0.049	0.0094	ug/L		10/21/13 16:12	10/24/13 07:03	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/21/13 16:12	10/24/13 07:03	1
Endosulfan II	0.049	U	0.049	0.0095	ug/L		10/21/13 16:12	10/24/13 07:03	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/21/13 16:12	10/24/13 07:03	1
Endrin	0.049	U	0.049	0.0094	ug/L		10/21/13 16:12	10/24/13 07:03	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/21/13 16:12	10/24/13 07:03	1
Endrin ketone	0.049	U	0.049	0.0082	ug/L		10/21/13 16:12	10/24/13 07:03	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/21/13 16:12	10/24/13 07:03	1
Heptachlor epoxide	0.049	U	0.049	0.0058	ug/L		10/21/13 16:12	10/24/13 07:03	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/21/13 16:12	10/24/13 07:03	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/21/13 16:12	10/24/13 07:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	71			22 - 130			10/21/13 16:12	10/24/13 07:03	1
Tetrachloro-m-xylene	66			53 - 130			10/21/13 16:12	10/24/13 07:03	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-37L**

**Lab Sample ID: 680-95286-21**

Date Collected: 10/16/13 16:03

Matrix: Water

Date Received: 10/18/13 09:34

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0068	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>alpha-BHC</b>	<b>1.0</b>	<b>E</b>	0.048	0.0055	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>beta-BHC</b>	<b>0.77</b>		0.048	0.0065	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>delta-BHC</b>	<b>1.6</b>	<b>E</b>	0.048	0.0046	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>gamma-BHC (Lindane)</b>	<b>0.23</b>		0.048	0.0057	ug/L		10/23/13 15:34	10/24/13 20:22	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/23/13 15:34	10/24/13 20:22	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>Dieldrin</b>	<b>0.021</b>	<b>J</b>	0.048	0.0088	ug/L		10/23/13 15:34	10/24/13 20:22	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		10/23/13 15:34	10/24/13 20:22	1
4,4'-DDE	0.048	U	0.048	0.0075	ug/L		10/23/13 15:34	10/24/13 20:22	1
4,4'-DDT	0.048	U	0.048	0.0094	ug/L		10/23/13 15:34	10/24/13 20:22	1
Endosulfan I	0.048	U	0.048	0.0041	ug/L		10/23/13 15:34	10/24/13 20:22	1
Endosulfan II	0.048	U	0.048	0.0095	ug/L		10/23/13 15:34	10/24/13 20:22	1
Endosulfan sulfate	0.048	U	0.048	0.0066	ug/L		10/23/13 15:34	10/24/13 20:22	1
Endrin	0.048	U	0.048	0.0094	ug/L		10/23/13 15:34	10/24/13 20:22	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>Endrin ketone</b>	<b>0.049</b>		0.048	0.0081	ug/L		10/23/13 15:34	10/24/13 20:22	1
Heptachlor	0.048	U	0.048	0.0068	ug/L		10/23/13 15:34	10/24/13 20:22	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/23/13 15:34	10/24/13 20:22	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		10/23/13 15:34	10/24/13 20:22	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/23/13 15:34	10/24/13 20:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	73		22 - 130				10/23/13 15:34	10/24/13 20:22	1
Tetrachloro-m-xylene	67		53 - 130				10/23/13 15:34	10/24/13 20:22	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.19	U	0.19	0.027	ug/L		10/23/13 15:34	10/24/13 20:45	4
<b>alpha-BHC</b>	<b>0.96</b>	<b>D</b>	0.19	0.022	ug/L		10/23/13 15:34	10/24/13 20:45	4
<b>beta-BHC</b>	<b>0.83</b>	<b>D</b>	0.19	0.026	ug/L		10/23/13 15:34	10/24/13 20:45	4
<b>delta-BHC</b>	<b>1.5</b>	<b>D</b>	0.19	0.019	ug/L		10/23/13 15:34	10/24/13 20:45	4
<b>gamma-BHC (Lindane)</b>	<b>0.24</b>	<b>D</b>	0.19	0.023	ug/L		10/23/13 15:34	10/24/13 20:45	4
alpha-Chlordane	0.19	U	0.19	0.023	ug/L		10/23/13 15:34	10/24/13 20:45	4
gamma-Chlordane	0.19	U	0.19	0.020	ug/L		10/23/13 15:34	10/24/13 20:45	4
Dieldrin	0.19	U	0.19	0.035	ug/L		10/23/13 15:34	10/24/13 20:45	4
4,4'-DDD	0.19	U	0.19	0.025	ug/L		10/23/13 15:34	10/24/13 20:45	4
4,4'-DDE	0.19	U	0.19	0.030	ug/L		10/23/13 15:34	10/24/13 20:45	4
4,4'-DDT	0.19	U	0.19	0.038	ug/L		10/23/13 15:34	10/24/13 20:45	4
Endosulfan I	0.19	U	0.19	0.016	ug/L		10/23/13 15:34	10/24/13 20:45	4
Endosulfan II	0.19	U	0.19	0.038	ug/L		10/23/13 15:34	10/24/13 20:45	4
Endosulfan sulfate	0.19	U	0.19	0.026	ug/L		10/23/13 15:34	10/24/13 20:45	4
Endrin	0.19	U	0.19	0.038	ug/L		10/23/13 15:34	10/24/13 20:45	4
Endrin aldehyde	0.19	U	0.19	0.062	ug/L		10/23/13 15:34	10/24/13 20:45	4
<b>Endrin ketone</b>	<b>0.055</b>	<b>J D</b>	0.19	0.033	ug/L		10/23/13 15:34	10/24/13 20:45	4
Heptachlor	0.19	U	0.19	0.027	ug/L		10/23/13 15:34	10/24/13 20:45	4
Heptachlor epoxide	0.19	U	0.19	0.023	ug/L		10/23/13 15:34	10/24/13 20:45	4
Methoxychlor	0.19	U	0.19	0.050	ug/L		10/23/13 15:34	10/24/13 20:45	4
Toxaphene	19	U	19	1.9	ug/L		10/23/13 15:34	10/24/13 20:45	4

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-37L**

Date Collected: 10/16/13 16:03

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-21**

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	85		22 - 130	10/23/13 15:34	10/24/13 20:45	4
Tetrachloro-m-xylene	72		53 - 130	10/23/13 15:34	10/24/13 20:45	4

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-39L**

**Lab Sample ID: 680-95286-23**

**Matrix: Water**

Date Collected: 10/17/13 12:40

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.048	U	0.048	0.0067	ug/L		10/23/13 15:34	10/24/13 21:07	1
alpha-BHC	0.048	U	0.048	0.0055	ug/L		10/23/13 15:34	10/24/13 21:07	1
beta-BHC	0.048	U	0.048	0.0065	ug/L		10/23/13 15:34	10/24/13 21:07	1
delta-BHC	0.048	U	0.048	0.0046	ug/L		10/23/13 15:34	10/24/13 21:07	1
gamma-BHC (Lindane)	0.048	U	0.048	0.0057	ug/L		10/23/13 15:34	10/24/13 21:07	1
alpha-Chlordane	0.048	U	0.048	0.0058	ug/L		10/23/13 15:34	10/24/13 21:07	1
gamma-Chlordane	0.048	U	0.048	0.0049	ug/L		10/23/13 15:34	10/24/13 21:07	1
Dieldrin	0.048	U	0.048	0.0088	ug/L		10/23/13 15:34	10/24/13 21:07	1
4,4'-DDD	0.048	U	0.048	0.0063	ug/L		10/23/13 15:34	10/24/13 21:07	1
4,4'-DDE	0.048	U	0.048	0.0074	ug/L		10/23/13 15:34	10/24/13 21:07	1
4,4'-DDT	0.048	U	0.048	0.0093	ug/L		10/23/13 15:34	10/24/13 21:07	1
Endosulfan I	0.048	U	0.048	0.0040	ug/L		10/23/13 15:34	10/24/13 21:07	1
Endosulfan II	0.048	U	0.048	0.0094	ug/L		10/23/13 15:34	10/24/13 21:07	1
Endosulfan sulfate	0.048	U	0.048	0.0065	ug/L		10/23/13 15:34	10/24/13 21:07	1
Endrin	0.048	U	0.048	0.0093	ug/L		10/23/13 15:34	10/24/13 21:07	1
Endrin aldehyde	0.048	U	0.048	0.015	ug/L		10/23/13 15:34	10/24/13 21:07	1
Endrin ketone	0.048	U	0.048	0.0081	ug/L		10/23/13 15:34	10/24/13 21:07	1
Heptachlor	0.048	U	0.048	0.0067	ug/L		10/23/13 15:34	10/24/13 21:07	1
Heptachlor epoxide	0.048	U	0.048	0.0058	ug/L		10/23/13 15:34	10/24/13 21:07	1
Methoxychlor	0.048	U	0.048	0.013	ug/L		10/23/13 15:34	10/24/13 21:07	1
Toxaphene	4.8	U	4.8	0.48	ug/L		10/23/13 15:34	10/24/13 21:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	70			22 - 130			10/23/13 15:34	10/24/13 21:07	1
Tetrachloro-m-xylene	66			53 - 130			10/23/13 15:34	10/24/13 21:07	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: PZ-2**

**Lab Sample ID: 680-95286-26**

Date Collected: 10/17/13 11:42

Matrix: Water

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0068	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>alpha-BHC</b>	<b>0.31</b>		0.049	0.0055	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>beta-BHC</b>	<b>0.19</b>		0.049	0.0065	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>delta-BHC</b>	<b>0.22</b>		0.049	0.0047	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>gamma-BHC (Lindane)</b>	<b>0.20</b>		0.049	0.0057	ug/L		10/23/13 15:34	10/24/13 21:30	1
alpha-Chlordane	0.049	U	0.049	0.0058	ug/L		10/23/13 15:34	10/24/13 21:30	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>Dieldrin</b>	<b>0.015 J</b>		0.049	0.0088	ug/L		10/23/13 15:34	10/24/13 21:30	1
4,4'-DDD	0.049	U	0.049	0.0063	ug/L		10/23/13 15:34	10/24/13 21:30	1
4,4'-DDE	0.049	U	0.049	0.0075	ug/L		10/23/13 15:34	10/24/13 21:30	1
4,4'-DDT	0.049	U	0.049	0.0094	ug/L		10/23/13 15:34	10/24/13 21:30	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/23/13 15:34	10/24/13 21:30	1
Endosulfan II	0.049	U	0.049	0.0095	ug/L		10/23/13 15:34	10/24/13 21:30	1
Endosulfan sulfate	0.049	U	0.049	0.0066	ug/L		10/23/13 15:34	10/24/13 21:30	1
Endrin	0.049	U	0.049	0.0094	ug/L		10/23/13 15:34	10/24/13 21:30	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>Endrin ketone</b>	<b>0.013 J</b>		0.049	0.0082	ug/L		10/23/13 15:34	10/24/13 21:30	1
Heptachlor	0.049	U	0.049	0.0068	ug/L		10/23/13 15:34	10/24/13 21:30	1
Heptachlor epoxide	0.049	U	0.049	0.0058	ug/L		10/23/13 15:34	10/24/13 21:30	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/23/13 15:34	10/24/13 21:30	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/23/13 15:34	10/24/13 21:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	43			22 - 130			10/23/13 15:34	10/24/13 21:30	1
Tetrachloro-m-xylene	64			53 - 130			10/23/13 15:34	10/24/13 21:30	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: PZ-3**

**Lab Sample ID: 680-95286-27**

Date Collected: 10/17/13 10:13

Matrix: Water

Date Received: 10/18/13 09:34

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/23/13 15:34	10/24/13 21:53	1
<b>alpha-BHC</b>	<b>0.24</b>		0.051	0.0058	ug/L		10/23/13 15:34	10/24/13 21:53	1
<b>beta-BHC</b>	<b>0.093</b>		0.051	0.0068	ug/L		10/23/13 15:34	10/24/13 21:53	1
<b>delta-BHC</b>	<b>0.14</b>		0.051	0.0049	ug/L		10/23/13 15:34	10/24/13 21:53	1
<b>gamma-BHC (Lindane)</b>	<b>0.17</b>		0.051	0.0060	ug/L		10/23/13 15:34	10/24/13 21:53	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/23/13 15:34	10/24/13 21:53	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/23/13 15:34	10/24/13 21:53	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		10/23/13 15:34	10/24/13 21:53	1
4,4'-DDD	0.051	U	0.051	0.0066	ug/L		10/23/13 15:34	10/24/13 21:53	1
4,4'-DDE	0.051	U	0.051	0.0078	ug/L		10/23/13 15:34	10/24/13 21:53	1
4,4'-DDT	0.051	U	0.051	0.0099	ug/L		10/23/13 15:34	10/24/13 21:53	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/23/13 15:34	10/24/13 21:53	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		10/23/13 15:34	10/24/13 21:53	1
Endosulfan sulfate	0.051	U	0.051	0.0069	ug/L		10/23/13 15:34	10/24/13 21:53	1
Endrin	0.051	U	0.051	0.0099	ug/L		10/23/13 15:34	10/24/13 21:53	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/23/13 15:34	10/24/13 21:53	1
Endrin ketone	0.051	U	0.051	0.0085	ug/L		10/23/13 15:34	10/24/13 21:53	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/23/13 15:34	10/24/13 21:53	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/23/13 15:34	10/24/13 21:53	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/23/13 15:34	10/24/13 21:53	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/23/13 15:34	10/24/13 21:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	55			22 - 130			10/23/13 15:34	10/24/13 21:53	1
Tetrachloro-m-xylene	61			53 - 130			10/23/13 15:34	10/24/13 21:53	1

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: TRIB BLANK 082713**

**Lab Sample ID: 680-95286-29**

Date Collected: 10/17/13 00:00

Matrix: Water

Date Received: 10/18/13 09:34

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/19/13 17:45	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130					10/19/13 17:45	1
4-Bromofluorobenzene	97		70 - 130					10/19/13 17:45	1
Dibromofluoromethane	99		70 - 130					10/19/13 17:45	1

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW38L**

**Lab Sample ID: 680-95335-1**

**Matrix: Water**

Date Collected: 10/17/13 10:07

Date Received: 10/19/13 08:41

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.051	U	0.051	0.0071	ug/L		10/23/13 15:34	10/25/13 01:17	1
alpha-BHC	0.051	U	0.051	0.0058	ug/L		10/23/13 15:34	10/25/13 01:17	1
beta-BHC	0.051	U	0.051	0.0068	ug/L		10/23/13 15:34	10/25/13 01:17	1
delta-BHC	0.051	U	0.051	0.0049	ug/L		10/23/13 15:34	10/25/13 01:17	1
gamma-BHC (Lindane)	0.051	U	0.051	0.0060	ug/L		10/23/13 15:34	10/25/13 01:17	1
alpha-Chlordane	0.051	U	0.051	0.0061	ug/L		10/23/13 15:34	10/25/13 01:17	1
gamma-Chlordane	0.051	U	0.051	0.0052	ug/L		10/23/13 15:34	10/25/13 01:17	1
Dieldrin	0.051	U	0.051	0.0093	ug/L		10/23/13 15:34	10/25/13 01:17	1
4,4'-DDD	0.051	U	0.051	0.0066	ug/L		10/23/13 15:34	10/25/13 01:17	1
4,4'-DDE	0.051	U	0.051	0.0079	ug/L		10/23/13 15:34	10/25/13 01:17	1
4,4'-DDT	0.051	U	0.051	0.0099	ug/L		10/23/13 15:34	10/25/13 01:17	1
Endosulfan I	0.051	U	0.051	0.0043	ug/L		10/23/13 15:34	10/25/13 01:17	1
Endosulfan II	0.051	U	0.051	0.010	ug/L		10/23/13 15:34	10/25/13 01:17	1
Endosulfan sulfate	0.051	U	0.051	0.0069	ug/L		10/23/13 15:34	10/25/13 01:17	1
Endrin	0.051	U	0.051	0.0099	ug/L		10/23/13 15:34	10/25/13 01:17	1
Endrin aldehyde	0.051	U	0.051	0.016	ug/L		10/23/13 15:34	10/25/13 01:17	1
Endrin ketone	0.051	U	0.051	0.0086	ug/L		10/23/13 15:34	10/25/13 01:17	1
Heptachlor	0.051	U	0.051	0.0071	ug/L		10/23/13 15:34	10/25/13 01:17	1
Heptachlor epoxide	0.051	U	0.051	0.0061	ug/L		10/23/13 15:34	10/25/13 01:17	1
Methoxychlor	0.051	U	0.051	0.013	ug/L		10/23/13 15:34	10/25/13 01:17	1
Toxaphene	5.1	U	5.1	0.51	ug/L		10/23/13 15:34	10/25/13 01:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	40			22 - 130			10/23/13 15:34	10/25/13 01:17	1
Tetrachloro-m-xylene	62			53 - 130			10/23/13 15:34	10/25/13 01:17	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW31L**

**Lab Sample ID: 680-95335-2**

**Matrix: Water**

Date Collected: 10/17/13 10:57

Date Received: 10/19/13 08:41

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.053	U	0.053	0.0074	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>alpha-BHC</b>	<b>0.57</b>		0.053	0.0060	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>beta-BHC</b>	<b>0.75</b>		0.053	0.0071	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>delta-BHC</b>	<b>1.0</b> E		0.053	0.0051	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>gamma-BHC (Lindane)</b>	<b>0.095</b>		0.053	0.0062	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>alpha-Chlordane</b>	<b>0.015</b> J		0.053	0.0063	ug/L		10/23/13 15:34	10/25/13 01:40	1
gamma-Chlordane	0.053	U	0.053	0.0054	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>Dieldrin</b>	<b>0.032</b> J		0.053	0.0096	ug/L		10/23/13 15:34	10/25/13 01:40	1
4,4'-DDD	0.053	U	0.053	0.0068	ug/L		10/23/13 15:34	10/25/13 01:40	1
4,4'-DDE	0.053	U	0.053	0.0081	ug/L		10/23/13 15:34	10/25/13 01:40	1
4,4'-DDT	0.053	U	0.053	0.010	ug/L		10/23/13 15:34	10/25/13 01:40	1
Endosulfan I	0.053	U	0.053	0.0044	ug/L		10/23/13 15:34	10/25/13 01:40	1
Endosulfan II	0.053	U	0.053	0.010	ug/L		10/23/13 15:34	10/25/13 01:40	1
Endosulfan sulfate	0.053	U	0.053	0.0072	ug/L		10/23/13 15:34	10/25/13 01:40	1
Endrin	0.053	U	0.053	0.010	ug/L		10/23/13 15:34	10/25/13 01:40	1
Endrin aldehyde	0.053	U	0.053	0.017	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>Endrin ketone</b>	<b>0.056</b>		0.053	0.0088	ug/L		10/23/13 15:34	10/25/13 01:40	1
Heptachlor	0.053	U	0.053	0.0074	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>Heptachlor epoxide</b>	<b>0.021</b> J		0.053	0.0063	ug/L		10/23/13 15:34	10/25/13 01:40	1
Methoxychlor	0.053	U	0.053	0.014	ug/L		10/23/13 15:34	10/25/13 01:40	1
Toxaphene	5.3	U	5.3	0.53	ug/L		10/23/13 15:34	10/25/13 01:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	62		22 - 130				10/23/13 15:34	10/25/13 01:40	1
Tetrachloro-m-xylene	62		53 - 130				10/23/13 15:34	10/25/13 01:40	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.21	U	0.21	0.029	ug/L		10/23/13 15:34	10/30/13 15:31	4
<b>alpha-BHC</b>	<b>0.54</b> D		0.21	0.024	ug/L		10/23/13 15:34	10/30/13 15:31	4
<b>beta-BHC</b>	<b>0.86</b> D		0.21	0.028	ug/L		10/23/13 15:34	10/30/13 15:31	4
<b>delta-BHC</b>	<b>0.97</b> D		0.21	0.020	ug/L		10/23/13 15:34	10/30/13 15:31	4
<b>gamma-BHC (Lindane)</b>	<b>0.10</b> J D		0.21	0.025	ug/L		10/23/13 15:34	10/30/13 15:31	4
alpha-Chlordane	0.21	U	0.21	0.025	ug/L		10/23/13 15:34	10/30/13 15:31	4
gamma-Chlordane	0.21	U	0.21	0.021	ug/L		10/23/13 15:34	10/30/13 15:31	4
Dieldrin	0.21	U	0.21	0.038	ug/L		10/23/13 15:34	10/30/13 15:31	4
4,4'-DDD	0.21	U	0.21	0.027	ug/L		10/23/13 15:34	10/30/13 15:31	4
4,4'-DDE	0.21	U	0.21	0.032	ug/L		10/23/13 15:34	10/30/13 15:31	4
4,4'-DDT	0.21	U	0.21	0.041	ug/L		10/23/13 15:34	10/30/13 15:31	4
Endosulfan I	0.21	U	0.21	0.018	ug/L		10/23/13 15:34	10/30/13 15:31	4
Endosulfan II	0.21	U	0.21	0.041	ug/L		10/23/13 15:34	10/30/13 15:31	4
Endosulfan sulfate	0.21	U	0.21	0.029	ug/L		10/23/13 15:34	10/30/13 15:31	4
Endrin	0.21	U	0.21	0.041	ug/L		10/23/13 15:34	10/30/13 15:31	4
Endrin aldehyde	0.21	U	0.21	0.067	ug/L		10/23/13 15:34	10/30/13 15:31	4
<b>Endrin ketone</b>	<b>0.062</b> J D		0.21	0.035	ug/L		10/23/13 15:34	10/30/13 15:31	4
Heptachlor	0.21	U	0.21	0.029	ug/L		10/23/13 15:34	10/30/13 15:31	4
Heptachlor epoxide	0.21	U	0.21	0.025	ug/L		10/23/13 15:34	10/30/13 15:31	4
Methoxychlor	0.21	U	0.21	0.055	ug/L		10/23/13 15:34	10/30/13 15:31	4
Toxaphene	21	U	21	2.1	ug/L		10/23/13 15:34	10/30/13 15:31	4

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW31L**

**Date Collected: 10/17/13 10:57**

**Date Received: 10/19/13 08:41**

**Lab Sample ID: 680-95335-2**

**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		22 - 130	10/23/13 15:34	10/30/13 15:31	4
Tetrachloro-m-xylene	64		53 - 130	10/23/13 15:34	10/30/13 15:31	4

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: PZ5**

**Lab Sample ID: 680-95335-3**

**Matrix: Water**

Date Collected: 10/17/13 11:45

Date Received: 10/19/13 08:41

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/23/13 15:34	10/25/13 02:02	1
<b>alpha-BHC</b>	<b>2.0</b>	<b>E</b>	0.050	0.0057	ug/L		10/23/13 15:34	10/25/13 02:02	1
<b>beta-BHC</b>	<b>0.48</b>		0.050	0.0067	ug/L		10/23/13 15:34	10/25/13 02:02	1
<b>delta-BHC</b>	<b>0.55</b>		0.050	0.0048	ug/L		10/23/13 15:34	10/25/13 02:02	1
<b>gamma-BHC (Lindane)</b>	<b>1.7</b>	<b>E</b>	0.050	0.0059	ug/L		10/23/13 15:34	10/25/13 02:02	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/23/13 15:34	10/25/13 02:02	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/23/13 15:34	10/25/13 02:02	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/23/13 15:34	10/25/13 02:02	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/23/13 15:34	10/25/13 02:02	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/23/13 15:34	10/25/13 02:02	1
4,4'-DDT	0.050	U	0.050	0.0098	ug/L		10/23/13 15:34	10/25/13 02:02	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/23/13 15:34	10/25/13 02:02	1
Endosulfan II	0.050	U	0.050	0.0099	ug/L		10/23/13 15:34	10/25/13 02:02	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/23/13 15:34	10/25/13 02:02	1
Endrin	0.050	U	0.050	0.0098	ug/L		10/23/13 15:34	10/25/13 02:02	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/23/13 15:34	10/25/13 02:02	1
<b>Endrin ketone</b>	<b>0.021</b>	<b>J</b>	0.050	0.0084	ug/L		10/23/13 15:34	10/25/13 02:02	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/23/13 15:34	10/25/13 02:02	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/23/13 15:34	10/25/13 02:02	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/23/13 15:34	10/25/13 02:02	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/23/13 15:34	10/25/13 02:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	60		22 - 130				10/23/13 15:34	10/25/13 02:02	1
Tetrachloro-m-xylene	69		53 - 130				10/23/13 15:34	10/25/13 02:02	1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.20	U	0.20	0.028	ug/L		10/23/13 15:34	10/25/13 02:25	4
<b>alpha-BHC</b>	<b>1.6</b>	<b>D</b>	0.20	0.023	ug/L		10/23/13 15:34	10/25/13 02:25	4
<b>beta-BHC</b>	<b>0.31</b>	<b>D</b>	0.20	0.027	ug/L		10/23/13 15:34	10/25/13 02:25	4
<b>delta-BHC</b>	<b>0.47</b>	<b>D</b>	0.20	0.019	ug/L		10/23/13 15:34	10/25/13 02:25	4
<b>gamma-BHC (Lindane)</b>	<b>1.5</b>	<b>D</b>	0.20	0.024	ug/L		10/23/13 15:34	10/25/13 02:25	4
alpha-Chlordane	0.20	U	0.20	0.024	ug/L		10/23/13 15:34	10/25/13 02:25	4
gamma-Chlordane	0.20	U	0.20	0.021	ug/L		10/23/13 15:34	10/25/13 02:25	4
Dieldrin	0.20	U	0.20	0.037	ug/L		10/23/13 15:34	10/25/13 02:25	4
4,4'-DDD	0.20	U	0.20	0.026	ug/L		10/23/13 15:34	10/25/13 02:25	4
4,4'-DDE	0.20	U	0.20	0.031	ug/L		10/23/13 15:34	10/25/13 02:25	4
4,4'-DDT	0.20	U	0.20	0.039	ug/L		10/23/13 15:34	10/25/13 02:25	4
Endosulfan I	0.20	U	0.20	0.017	ug/L		10/23/13 15:34	10/25/13 02:25	4
Endosulfan II	0.20	U	0.20	0.039	ug/L		10/23/13 15:34	10/25/13 02:25	4
Endosulfan sulfate	0.20	U	0.20	0.027	ug/L		10/23/13 15:34	10/25/13 02:25	4
Endrin	0.20	U	0.20	0.039	ug/L		10/23/13 15:34	10/25/13 02:25	4
Endrin aldehyde	0.20	U	0.20	0.064	ug/L		10/23/13 15:34	10/25/13 02:25	4
Endrin ketone	0.20	U	0.20	0.034	ug/L		10/23/13 15:34	10/25/13 02:25	4
Heptachlor	0.20	U	0.20	0.028	ug/L		10/23/13 15:34	10/25/13 02:25	4
Heptachlor epoxide	0.20	U	0.20	0.024	ug/L		10/23/13 15:34	10/25/13 02:25	4
Methoxychlor	0.20	U	0.20	0.052	ug/L		10/23/13 15:34	10/25/13 02:25	4
Toxaphene	20	U	20	2.0	ug/L		10/23/13 15:34	10/25/13 02:25	4

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW40L**

**Lab Sample ID: 680-95335-4**

**Matrix: Water**

Date Collected: 10/17/13 12:35

Date Received: 10/19/13 08:41

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/23/13 15:34	10/25/13 02:48	1
alpha-BHC	0.049	U	0.049	0.0056	ug/L		10/23/13 15:34	10/25/13 02:48	1
<b>beta-BHC</b>	<b>0.042</b>	<b>J p</b>	0.049	0.0066	ug/L		10/23/13 15:34	10/25/13 02:48	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		10/23/13 15:34	10/25/13 02:48	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/23/13 15:34	10/25/13 02:48	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/23/13 15:34	10/25/13 02:48	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/23/13 15:34	10/25/13 02:48	1
Dieldrin	0.049	U	0.049	0.0090	ug/L		10/23/13 15:34	10/25/13 02:48	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		10/23/13 15:34	10/25/13 02:48	1
4,4'-DDE	0.049	U	0.049	0.0076	ug/L		10/23/13 15:34	10/25/13 02:48	1
4,4'-DDT	0.049	U	0.049	0.0095	ug/L		10/23/13 15:34	10/25/13 02:48	1
Endosulfan I	0.049	U	0.049	0.0041	ug/L		10/23/13 15:34	10/25/13 02:48	1
Endosulfan II	0.049	U	0.049	0.0096	ug/L		10/23/13 15:34	10/25/13 02:48	1
Endosulfan sulfate	0.049	U	0.049	0.0067	ug/L		10/23/13 15:34	10/25/13 02:48	1
Endrin	0.049	U	0.049	0.0095	ug/L		10/23/13 15:34	10/25/13 02:48	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/23/13 15:34	10/25/13 02:48	1
Endrin ketone	0.049	U	0.049	0.0083	ug/L		10/23/13 15:34	10/25/13 02:48	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/23/13 15:34	10/25/13 02:48	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/23/13 15:34	10/25/13 02:48	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/23/13 15:34	10/25/13 02:48	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/23/13 15:34	10/25/13 02:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	31			22 - 130			10/23/13 15:34	10/25/13 02:48	1
Tetrachloro-m-xylene	68			53 - 130			10/23/13 15:34	10/25/13 02:48	1

TestAmerica Savannah

# Client Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: DUP2**

**Lab Sample ID: 680-95335-5**

**Matrix: Water**

Date Collected: 10/17/13 12:37

Date Received: 10/19/13 08:41

**Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.049	U	0.049	0.0069	ug/L		10/23/13 15:34	10/25/13 03:33	1
alpha-BHC	0.049	U	0.049	0.0056	ug/L		10/23/13 15:34	10/25/13 03:33	1
<b>beta-BHC</b>	<b>0.034</b>	<b>J p</b>	0.049	0.0066	ug/L		10/23/13 15:34	10/25/13 03:33	1
delta-BHC	0.049	U	0.049	0.0047	ug/L		10/23/13 15:34	10/25/13 03:33	1
gamma-BHC (Lindane)	0.049	U	0.049	0.0058	ug/L		10/23/13 15:34	10/25/13 03:33	1
alpha-Chlordane	0.049	U	0.049	0.0059	ug/L		10/23/13 15:34	10/25/13 03:33	1
gamma-Chlordane	0.049	U	0.049	0.0050	ug/L		10/23/13 15:34	10/25/13 03:33	1
Dieldrin	0.049	U	0.049	0.0090	ug/L		10/23/13 15:34	10/25/13 03:33	1
4,4'-DDD	0.049	U	0.049	0.0064	ug/L		10/23/13 15:34	10/25/13 03:33	1
4,4'-DDE	0.049	U	0.049	0.0076	ug/L		10/23/13 15:34	10/25/13 03:33	1
4,4'-DDT	0.049	U	0.049	0.0096	ug/L		10/23/13 15:34	10/25/13 03:33	1
Endosulfan I	0.049	U	0.049	0.0042	ug/L		10/23/13 15:34	10/25/13 03:33	1
Endosulfan II	0.049	U	0.049	0.0097	ug/L		10/23/13 15:34	10/25/13 03:33	1
Endosulfan sulfate	0.049	U	0.049	0.0067	ug/L		10/23/13 15:34	10/25/13 03:33	1
Endrin	0.049	U	0.049	0.0096	ug/L		10/23/13 15:34	10/25/13 03:33	1
Endrin aldehyde	0.049	U	0.049	0.016	ug/L		10/23/13 15:34	10/25/13 03:33	1
Endrin ketone	0.049	U	0.049	0.0083	ug/L		10/23/13 15:34	10/25/13 03:33	1
Heptachlor	0.049	U	0.049	0.0069	ug/L		10/23/13 15:34	10/25/13 03:33	1
Heptachlor epoxide	0.049	U	0.049	0.0059	ug/L		10/23/13 15:34	10/25/13 03:33	1
Methoxychlor	0.049	U	0.049	0.013	ug/L		10/23/13 15:34	10/25/13 03:33	1
Toxaphene	4.9	U	4.9	0.49	ug/L		10/23/13 15:34	10/25/13 03:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	19	X		22 - 130			10/23/13 15:34	10/25/13 03:33	1
Tetrachloro-m-xylene	55			53 - 130			10/23/13 15:34	10/25/13 03:33	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID:** MB 680-299300/9

**Matrix:** Water

**Analysis Batch:** 299300

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichloroethene	1.0	U	1.0	0.13	ug/L			10/19/13 17:15	1
<b>Surrogate</b>									
<i>Toluene-d8 (Surr)</i>									
		%Recovery	Qualifer	Limits			Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>		105		70 - 130				10/19/13 17:15	1
4-Bromofluorobenzene		96		70 - 130				10/19/13 17:15	1
Dibromofluoromethane		98		70 - 130				10/19/13 17:15	1

**Lab Sample ID:** LCS 680-299300/4

**Matrix:** Water

**Analysis Batch:** 299300

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
	Added							
Trichloroethene		50.0	53.1		ug/L		106	80 - 120
<b>Surrogate</b>								
<i>Toluene-d8 (Surr)</i>								
		%Recovery	Qualifer	Limits				
<i>Toluene-d8 (Surr)</i>		109		70 - 130				
4-Bromofluorobenzene		102		70 - 130				
Dibromofluoromethane		108		70 - 130				

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

**Lab Sample ID:** MB 680-299407/21-A

**Matrix:** Water

**Analysis Batch:** 299852

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 299407

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	0.050	U	0.050	0.0070	ug/L		10/21/13 16:12	10/23/13 16:39	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/21/13 16:12	10/23/13 16:39	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/21/13 16:12	10/23/13 16:39	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/21/13 16:12	10/23/13 16:39	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/21/13 16:12	10/23/13 16:39	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/21/13 16:12	10/23/13 16:39	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/21/13 16:12	10/23/13 16:39	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/21/13 16:12	10/23/13 16:39	1
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/21/13 16:12	10/23/13 16:39	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/21/13 16:12	10/23/13 16:39	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/21/13 16:12	10/23/13 16:39	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/21/13 16:12	10/23/13 16:39	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/21/13 16:12	10/23/13 16:39	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/21/13 16:12	10/23/13 16:39	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/21/13 16:12	10/23/13 16:39	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/21/13 16:12	10/23/13 16:39	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		10/21/13 16:12	10/23/13 16:39	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/21/13 16:12	10/23/13 16:39	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/21/13 16:12	10/23/13 16:39	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/21/13 16:12	10/23/13 16:39	1

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# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## **Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)**

**Lab Sample ID: MB 680-299407/21-A**

**Matrix: Water**

**Analysis Batch: 299852**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 299407**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	5.0	U									
Toxaphene									10/21/13 16:12	10/23/13 16:39	1
<b>Surrogate</b>											
DCB Decachlorobiphenyl	MB	MB	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55				22 - 130				10/21/13 16:12	10/23/13 16:39	1
Tetrachloro-m-xylene	69				53 - 130				10/21/13 16:12	10/23/13 16:39	1

**Lab Sample ID: LCS 680-299407/22-A**

**Matrix: Water**

**Analysis Batch: 299852**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299407**

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
	5.0	U							92	14 - 168
Aldrin			0.100	0.0919		ug/L				
alpha-BHC			0.100	0.0991		ug/L				
beta-BHC			0.100	0.108		ug/L				
delta-BHC			0.100	0.131		ug/L				
gamma-BHC (Lindane)			0.100	0.101		ug/L				
alpha-Chlordane			0.100	0.100		ug/L				
gamma-Chlordane			0.100	0.100		ug/L				
Dieldrin			0.100	0.102		ug/L				
4,4'-DDD			0.100	0.105		ug/L				
4,4'-DDE			0.100	0.0952		ug/L				
4,4'-DDT			0.100	0.107		ug/L				
Endosulfan I			0.100	0.0869		ug/L				
Endosulfan II			0.100	0.100		ug/L				
Endosulfan sulfate			0.100	0.108		ug/L				
Endrin			0.100	0.122		ug/L				
Endrin aldehyde			0.100	0.139		ug/L				
Endrin ketone			0.100	0.114		ug/L				
Heptachlor			0.100	0.0900		ug/L				
Heptachlor epoxide			0.100	0.101		ug/L				
Methoxychlor			0.100	0.104		ug/L				
<b>Surrogate</b>										
DCB Decachlorobiphenyl	MB	MB	%Recovery	Qualifier	Limits					
DCB Decachlorobiphenyl	51				22 - 130					
Tetrachloro-m-xylene	68				53 - 130					

**Lab Sample ID: LCS 680-299407/26-A**

**Matrix: Water**

**Analysis Batch: 299852**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299407**

Surrogate	MB	MB	LCS Result	LCS Qualifier	Limits	D	%Rec
	5.0	U					
DCB Decachlorobiphenyl			66		22 - 130		
Tetrachloro-m-xylene			67		53 - 130		

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: LCSD 680-299407/23-A**

**Matrix: Water**

**Analysis Batch: 299852**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 299407**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Aldrin	0.100	0.0889		ug/L		89	14 - 168	3	50
alpha-BHC	0.100	0.0906		ug/L		91	43 - 138	9	50
beta-BHC	0.100	0.0974		ug/L		97	38 - 158	10	50
delta-BHC	0.100	0.110		ug/L		110	23 - 191	17	50
gamma-BHC (Lindane)	0.100	0.0914		ug/L		91	54 - 134	10	50
alpha-Chlordane	0.100	0.0949		ug/L		95	60 - 130	6	50
gamma-Chlordane	0.100	0.0929		ug/L		93	50 - 145	8	50
Dieldrin	0.100	0.0965		ug/L		97	61 - 136	5	50
4,4'-DDD	0.100	0.101		ug/L		101	49 - 144	4	50
4,4'-DDE	0.100	0.0905		ug/L		91	46 - 144	5	50
4,4'-DDT	0.100	0.107		ug/L		107	48 - 166	0	50
Endosulfan I	0.100	0.0811		ug/L		81	52 - 141	7	50
Endosulfan II	0.100	0.0945		ug/L		94	60 - 140	6	50
Endosulfan sulfate	0.100	0.103		ug/L		103	60 - 151	5	50
Endrin	0.100	0.111		ug/L		111	66 - 150	9	50
Endrin aldehyde	0.100	0.130		ug/L		130	16 - 200	6	50
Endrin ketone	0.100	0.110		ug/L		110	55 - 156	3	50
Heptachlor	0.100	0.0847		ug/L		85	10 - 200	6	50
Heptachlor epoxide	0.100	0.0942		ug/L		94	49 - 142	7	50
Methoxychlor	0.100	0.0980		ug/L		98	13 - 186	6	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	53		22 - 130
Tetrachloro-m-xylene	74		53 - 130

**Lab Sample ID: LCSD 680-299407/27-A**

**Matrix: Water**

**Analysis Batch: 299852**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 299407**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	53		22 - 130
Tetrachloro-m-xylene	60		53 - 130

**Lab Sample ID: MB 680-299780/19-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 299780**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.050	U	0.050	0.0070	ug/L		10/23/13 15:34	10/24/13 16:35	1
alpha-BHC	0.050	U	0.050	0.0057	ug/L		10/23/13 15:34	10/24/13 16:35	1
beta-BHC	0.050	U	0.050	0.0067	ug/L		10/23/13 15:34	10/24/13 16:35	1
delta-BHC	0.050	U	0.050	0.0048	ug/L		10/23/13 15:34	10/24/13 16:35	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0059	ug/L		10/23/13 15:34	10/24/13 16:35	1
alpha-Chlordane	0.050	U	0.050	0.0060	ug/L		10/23/13 15:34	10/24/13 16:35	1
gamma-Chlordane	0.050	U	0.050	0.0051	ug/L		10/23/13 15:34	10/24/13 16:35	1
Dieldrin	0.050	U	0.050	0.0091	ug/L		10/23/13 15:34	10/24/13 16:35	1

TestAmerica Savannah

# QC Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

**Lab Sample ID: MB 680-299780/19-A****Matrix: Water****Analysis Batch: 300041****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 299780**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.050	U	0.050	0.0065	ug/L		10/23/13 15:34	10/24/13 16:35	1
4,4'-DDE	0.050	U	0.050	0.0077	ug/L		10/23/13 15:34	10/24/13 16:35	1
4,4'-DDT	0.050	U	0.050	0.0097	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endosulfan I	0.050	U	0.050	0.0042	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endosulfan II	0.050	U	0.050	0.0098	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endosulfan sulfate	0.050	U	0.050	0.0068	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endrin	0.050	U	0.050	0.0097	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		10/23/13 15:34	10/24/13 16:35	1
Endrin ketone	0.050	U	0.050	0.0084	ug/L		10/23/13 15:34	10/24/13 16:35	1
Heptachlor	0.050	U	0.050	0.0070	ug/L		10/23/13 15:34	10/24/13 16:35	1
Heptachlor epoxide	0.050	U	0.050	0.0060	ug/L		10/23/13 15:34	10/24/13 16:35	1
Methoxychlor	0.050	U	0.050	0.013	ug/L		10/23/13 15:34	10/24/13 16:35	1
Toxaphene	5.0	U	5.0	0.50	ug/L		10/23/13 15:34	10/24/13 16:35	1
Surrogate	MB		Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	66		22 - 130				10/23/13 15:34	10/24/13 16:35	1
Tetrachloro-m-xylene	74		53 - 130				10/23/13 15:34	10/24/13 16:35	1

**Lab Sample ID: LCS 680-299780/20-A****Matrix: Water****Analysis Batch: 300041****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 299780**

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
	Added								
Aldrin	0.100		0.0911		ug/L		91	14 - 168	
alpha-BHC	0.100		0.0888		ug/L		89	43 - 138	
beta-BHC	0.100		0.100		ug/L		100	38 - 158	
delta-BHC	0.100		0.0947		ug/L		95	23 - 191	
gamma-BHC (Lindane)	0.100		0.0917		ug/L		92	54 - 134	
alpha-Chlordane	0.100		0.0966		ug/L		97	60 - 130	
gamma-Chlordane	0.100		0.0952		ug/L		95	50 - 145	
Dieldrin	0.100		0.0974		ug/L		97	61 - 136	
4,4'-DDD	0.100		0.0944		ug/L		94	49 - 144	
4,4'-DDE	0.100		0.0916		ug/L		92	46 - 144	
4,4'-DDT	0.100		0.0929		ug/L		93	48 - 166	
Endosulfan I	0.100		0.0765		ug/L		77	52 - 141	
Endosulfan II	0.100		0.0818		ug/L		82	60 - 140	
Endosulfan sulfate	0.100		0.0923		ug/L		92	60 - 151	
Endrin	0.100		0.109		ug/L		109	66 - 150	
Endrin aldehyde	0.100		0.101		ug/L		101	16 - 200	
Endrin ketone	0.100		0.0887		ug/L		89	55 - 156	
Heptachlor	0.100		0.0889		ug/L		89	10 - 200	
Heptachlor epoxide	0.100		0.0971		ug/L		97	49 - 142	
Methoxychlor	0.100		0.0912		ug/L		91	13 - 186	
Surrogate	LCS		Limits			D	%Rec	Limits	
	%Recovery	Qualifier							
DCB Decachlorobiphenyl	64		22 - 130						

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# QC Sample Results

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## **Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)**

**Lab Sample ID: LCS 680-299780/20-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene			74		53 - 130

**Lab Sample ID: LCS 680-299780/24-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl			65		22 - 130
Tetrachloro-m-xylene			74		53 - 130

**Lab Sample ID: LCSD 680-299780/21-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Analyte	Spike Added	LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Aldrin	0.100	0.0848		ug/L		85	14 - 168	7	50
alpha-BHC	0.100	0.0825		ug/L		83	43 - 138	7	50
beta-BHC	0.100	0.0942		ug/L		94	38 - 158	6	50
delta-BHC	0.100	0.0882		ug/L		88	23 - 191	7	50
gamma-BHC (Lindane)	0.100	0.0857		ug/L		86	54 - 134	7	50
alpha-Chlordane	0.100	0.0922		ug/L		92	60 - 130	5	50
gamma-Chlordane	0.100	0.0895		ug/L		89	50 - 145	6	50
Dieldrin	0.100	0.0938		ug/L		94	61 - 136	4	50
4,4'-DDD	0.100	0.0898		ug/L		90	49 - 144	5	50
4,4'-DDE	0.100	0.0868		ug/L		87	46 - 144	5	50
4,4'-DDT	0.100	0.0893		ug/L		89	48 - 166	4	50
Endosulfan I	0.100	0.0733		ug/L		73	52 - 141	4	50
Endosulfan II	0.100	0.0799		ug/L		80	60 - 140	2	50
Endosulfan sulfate	0.100	0.0894		ug/L		89	60 - 151	3	50
Endrin	0.100	0.103		ug/L		103	66 - 150	5	50
Endrin aldehyde	0.100	0.0983		ug/L		98	16 - 200	3	50
Endrin ketone	0.100	0.0878		ug/L		88	55 - 156	1	50
Heptachlor	0.100	0.0835		ug/L		84	10 - 200	6	50
Heptachlor epoxide	0.100	0.0918		ug/L		92	49 - 142	6	50
Methoxychlor	0.100	0.0891		ug/L		89	13 - 186	2	50

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl			62		22 - 130
Tetrachloro-m-xylene			66		53 - 130

**Lab Sample ID: LCSD 680-299780/25-A**

**Matrix: Water**

**Analysis Batch: 300041**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 299780**

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl			67		22 - 130

TestAmerica Savannah

## QC Sample Results

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

### Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-299780/25-A

Matrix: Water

Analysis Batch: 300041

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 299780

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	71		53 - 130

# QC Association Summary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## GC/MS VOA

**Analysis Batch: 299300**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-4	MW-10S	Total/NA	Water	8260B	
680-95286-5	MW-16S	Total/NA	Water	8260B	
680-95286-6	MW-17S	Total/NA	Water	8260B	
680-95286-7	MW-18S	Total/NA	Water	8260B	
680-95286-8	MW-16D	Total/NA	Water	8260B	
680-95286-9	MW-17D	Total/NA	Water	8260B	
680-95286-10	MW-18D	Total/NA	Water	8260B	
680-95286-14	MW-30D	Total/NA	Water	8260B	
680-95286-29	TRIB BLANK 082713	Total/NA	Water	8260B	
LCS 680-299300/4	Lab Control Sample	Total/NA	Water	8260B	
MB 680-299300/9	Method Blank	Total/NA	Water	8260B	

## GC Semi VOA

**Prep Batch: 299407**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-1	MW-4S	Total/NA	Water	3520C	
680-95286-1 - DL	MW-4S	Total/NA	Water	3520C	
680-95286-2	MW-5S	Total/NA	Water	3520C	
680-95286-2 - DL	MW-5S	Total/NA	Water	3520C	
680-95286-3	MW-6S	Total/NA	Water	3520C	
680-95286-4	MW-10S	Total/NA	Water	3520C	
680-95286-4 - DL	MW-10S	Total/NA	Water	3520C	
680-95286-5	MW-16S	Total/NA	Water	3520C	
680-95286-6	MW-17S	Total/NA	Water	3520C	
680-95286-7	MW-18S	Total/NA	Water	3520C	
680-95286-10	MW-18D	Total/NA	Water	3520C	
680-95286-10 - DL	MW-18D	Total/NA	Water	3520C	
680-95286-11	MW-22D	Total/NA	Water	3520C	
680-95286-12	MW-23D	Total/NA	Water	3520C	
680-95286-13	MW-26D	Total/NA	Water	3520C	
680-95286-14 - DL	MW-30D	Total/NA	Water	3520C	
680-95286-14	MW-30D	Total/NA	Water	3520C	
680-95286-15	MW-22L	Total/NA	Water	3520C	
680-95286-15 - DL	MW-22L	Total/NA	Water	3520C	
680-95286-16	MW-25L	Total/NA	Water	3520C	
680-95286-16 - DL	MW-25L	Total/NA	Water	3520C	
680-95286-17	MW-27L	Total/NA	Water	3520C	
680-95286-17 - DL	MW-27L	Total/NA	Water	3520C	
680-95286-19	MW-32L	Total/NA	Water	3520C	
680-95286-20	MW-36L	Total/NA	Water	3520C	
LCS 680-299407/22-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-299407/26-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-299407/23-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-299407/27-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-299407/21-A	Method Blank	Total/NA	Water	3520C	

**Prep Batch: 299780**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-21	MW-37L	Total/NA	Water	3520C	

TestAmerica Savannah

# QC Association Summary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## GC Semi VOA (Continued)

### Prep Batch: 299780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-21 - DL	MW-37L	Total/NA	Water	3520C	5
680-95286-23	MW-39L	Total/NA	Water	3520C	2
680-95286-26	PZ-2	Total/NA	Water	3520C	3
680-95286-27	PZ-3	Total/NA	Water	3520C	4
680-95335-1	MW38L	Total/NA	Water	3520C	5
680-95335-2	MW31L	Total/NA	Water	3520C	6
680-95335-2 - DL	MW31L	Total/NA	Water	3520C	7
680-95335-3	PZ5	Total/NA	Water	3520C	8
680-95335-3 - DL	PZ5	Total/NA	Water	3520C	9
680-95335-4	MW40L	Total/NA	Water	3520C	10
680-95335-5	DUP2	Total/NA	Water	3520C	11
LCS 680-299780/20-A	Lab Control Sample	Total/NA	Water	3520C	12
LCS 680-299780/24-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-299780/21-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-299780/25-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-299780/19-A	Method Blank	Total/NA	Water	3520C	

### Analysis Batch: 299852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-1	MW-4S	Total/NA	Water	8081B/8082A	299407
680-95286-2	MW-5S	Total/NA	Water	8081B/8082A	299407
680-95286-3	MW-6S	Total/NA	Water	8081B/8082A	299407
680-95286-3	MW-6S	Total/NA	Water	8081B/8082A	299407
680-95286-4	MW-10S	Total/NA	Water	8081B/8082A	299407
680-95286-5	MW-16S	Total/NA	Water	8081B/8082A	299407
680-95286-6	MW-17S	Total/NA	Water	8081B/8082A	299407
680-95286-7	MW-18S	Total/NA	Water	8081B/8082A	299407
680-95286-10	MW-18D	Total/NA	Water	8081B/8082A	299407
680-95286-11	MW-22D	Total/NA	Water	8081B/8082A	299407
LCS 680-299407/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299407
LCS 680-299407/26-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299407
LCSD 680-299407/23-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299407
LCSD 680-299407/27-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299407
MB 680-299407/21-A	Method Blank	Total/NA	Water	8081B/8082A	299407

### Analysis Batch: 299891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-12	MW-23D	Total/NA	Water	8081B/8082A	299407
680-95286-13	MW-26D	Total/NA	Water	8081B/8082A	299407
680-95286-14	MW-30D	Total/NA	Water	8081B/8082A	299407
680-95286-14 - DL	MW-30D	Total/NA	Water	8081B/8082A	299407
680-95286-15	MW-22L	Total/NA	Water	8081B/8082A	299407
680-95286-16	MW-25L	Total/NA	Water	8081B/8082A	299407
680-95286-16 - DL	MW-25L	Total/NA	Water	8081B/8082A	299407
680-95286-17	MW-27L	Total/NA	Water	8081B/8082A	299407
680-95286-19	MW-32L	Total/NA	Water	8081B/8082A	299407
680-95286-20	MW-36L	Total/NA	Water	8081B/8082A	299407

### Analysis Batch: 300041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-21	MW-37L	Total/NA	Water	8081B/8082A	299780

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# QC Association Summary

Client: Kleinfelder Inc  
Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

## GC Semi VOA (Continued)

### Analysis Batch: 300041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-21 - DL	MW-37L	Total/NA	Water	8081B/8082A	299780
680-95286-23	MW-39L	Total/NA	Water	8081B/8082A	299780
680-95286-26	PZ-2	Total/NA	Water	8081B/8082A	299780
680-95286-27	PZ-3	Total/NA	Water	8081B/8082A	299780
LCS 680-299780/20-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299780
LCS 680-299780/24-A	Lab Control Sample	Total/NA	Water	8081B/8082A	299780
LCSD 680-299780/21-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299780
LCSD 680-299780/25-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	299780
MB 680-299780/19-A	Method Blank	Total/NA	Water	8081B/8082A	299780

### Analysis Batch: 300159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95335-1	MW38L	Total/NA	Water	8081B/8082A	299780
680-95335-2	MW31L	Total/NA	Water	8081B/8082A	299780
680-95335-3	PZ5	Total/NA	Water	8081B/8082A	299780
680-95335-3 - DL	PZ5	Total/NA	Water	8081B/8082A	299780
680-95335-4	MW40L	Total/NA	Water	8081B/8082A	299780
680-95335-5	DUP2	Total/NA	Water	8081B/8082A	299780

### Analysis Batch: 300734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-95286-1 - DL	MW-4S	Total/NA	Water	8081B/8082A	299407
680-95286-2 - DL	MW-5S	Total/NA	Water	8081B/8082A	299407
680-95286-4 - DL	MW-10S	Total/NA	Water	8081B/8082A	299407
680-95286-10 - DL	MW-18D	Total/NA	Water	8081B/8082A	299407
680-95286-15 - DL	MW-22L	Total/NA	Water	8081B/8082A	299407
680-95286-17 - DL	MW-27L	Total/NA	Water	8081B/8082A	299407
680-95335-2 - DL	MW31L	Total/NA	Water	8081B/8082A	299780

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-4S**

**Lab Sample ID: 680-95286-1**

Matrix: Water

Date Collected: 10/16/13 10:33

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 20:26	GEM	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	40	300734	10/30/13 13:15	GEM	TAL SAV

**Client Sample ID: MW-5S**

**Lab Sample ID: 680-95286-2**

Matrix: Water

Date Collected: 10/15/13 14:44

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 21:12	GEM	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	20	300734	10/30/13 13:38	GEM	TAL SAV

**Client Sample ID: MW-6S**

**Lab Sample ID: 680-95286-3**

Matrix: Water

Date Collected: 10/15/13 15:35

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 21:57	GEM	TAL SAV
Total/NA	Analysis	8081B/8082A		10	299852	10/23/13 22:20	GEM	TAL SAV

**Client Sample ID: MW-10S**

**Lab Sample ID: 680-95286-4**

Matrix: Water

Date Collected: 10/15/13 12:49

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 18:14	JD1	TAL SAV
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 22:43	GEM	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	300734	10/30/13 14:01	GEM	TAL SAV

**Client Sample ID: MW-16S**

**Lab Sample ID: 680-95286-5**

Matrix: Water

Date Collected: 10/15/13 10:21

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 18:44	JD1	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

### Client Sample ID: MW-16S

### Lab Sample ID: 680-95286-5

Matrix: Water

Date Collected: 10/15/13 10:21

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 23:05	GEM	TAL SAV

### Client Sample ID: MW-17S

### Lab Sample ID: 680-95286-6

Matrix: Water

Date Collected: 10/15/13 11:07

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 19:13	JD1	TAL SAV
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 23:28	GEM	TAL SAV

### Client Sample ID: MW-18S

### Lab Sample ID: 680-95286-7

Matrix: Water

Date Collected: 10/15/13 11:43

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 19:43	JD1	TAL SAV
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/23/13 23:51	GEM	TAL SAV

### Client Sample ID: MW-16D

### Lab Sample ID: 680-95286-8

Matrix: Water

Date Collected: 10/16/13 11:55

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 20:12	JD1	TAL SAV

### Client Sample ID: MW-17D

### Lab Sample ID: 680-95286-9

Matrix: Water

Date Collected: 10/16/13 12:15

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 20:42	JD1	TAL SAV

### Client Sample ID: MW-18D

### Lab Sample ID: 680-95286-10

Matrix: Water

Date Collected: 10/16/13 10:08

Date Received: 10/18/13 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 21:11	JD1	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/24/13 00:14	GEM	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

### **Client Sample ID: MW-18D**

Date Collected: 10/16/13 10:08

Date Received: 10/18/13 09:34

### **Lab Sample ID: 680-95286-10**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	300734	10/30/13 14:23	GEM	TAL SAV

### **Client Sample ID: MW-22D**

Date Collected: 10/16/13 13:49

Date Received: 10/18/13 09:34

### **Lab Sample ID: 680-95286-11**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299852	10/24/13 00:36	GEM	TAL SAV

### **Client Sample ID: MW-23D**

Date Collected: 10/16/13 14:32

Date Received: 10/18/13 09:34

### **Lab Sample ID: 680-95286-12**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 03:16	GEM	TAL SAV
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV

### **Client Sample ID: MW-26D**

Date Collected: 10/17/13 15:38

Date Received: 10/18/13 09:34

### **Lab Sample ID: 680-95286-13**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 03:38	GEM	TAL SAV

### **Client Sample ID: MW-30D**

Date Collected: 10/16/13 10:55

Date Received: 10/18/13 09:34

### **Lab Sample ID: 680-95286-14**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 21:41	JD1	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 04:01	GEM	TAL SAV
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	299891	10/24/13 04:24	GEM	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-22L**

Date Collected: 10/16/13 13:30

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-15**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 04:46	GEM	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	2	300734	10/30/13 14:46	GEM	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV

**Client Sample ID: MW-25L**

Date Collected: 10/16/13 15:26

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-16**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 05:09	GEM	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	299891	10/24/13 05:32	GEM	TAL SAV

**Client Sample ID: MW-27L**

Date Collected: 10/17/13 10:59

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-17**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 05:55	GEM	TAL SAV
Total/NA	Prep	3520C	DL		299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	10	300734	10/30/13 15:09	GEM	TAL SAV

**Client Sample ID: MW-32L**

Date Collected: 10/17/13 14:45

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-19**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 06:40	GEM	TAL SAV

**Client Sample ID: MW-36L**

Date Collected: 10/16/13 15:15

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-20**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	299891	10/24/13 07:03	GEM	TAL SAV
Total/NA	Prep	3520C			299407	10/21/13 16:12	RBS	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW-37L**

Date Collected: 10/16/13 16:03

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-21**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300041	10/24/13 20:22	JCK	TAL SAV
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Prep	3520C	DL		299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Prep	3520C	DL		299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	300041	10/24/13 20:45	JCK	TAL SAV

**Client Sample ID: MW-39L**

Date Collected: 10/17/13 12:40

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-23**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300041	10/24/13 21:07	JCK	TAL SAV

**Client Sample ID: PZ-2**

Date Collected: 10/17/13 11:42

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-26**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300041	10/24/13 21:30	JCK	TAL SAV

**Client Sample ID: PZ-3**

Date Collected: 10/17/13 10:13

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-27**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300041	10/24/13 21:53	JCK	TAL SAV

**Client Sample ID: TRIB BLANK 082713**

Date Collected: 10/17/13 00:00

Date Received: 10/18/13 09:34

**Lab Sample ID: 680-95286-29**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	299300	10/19/13 17:45	JD1	TAL SAV

TestAmerica Savannah

## Lab Chronicle

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

**Client Sample ID: MW38L**

**Lab Sample ID: 680-95335-1**

Date Collected: 10/17/13 10:07

Matrix: Water

Date Received: 10/19/13 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	300159	10/25/13 01:17	JCK	TAL SAV
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV

**Client Sample ID: MW31L**

**Lab Sample ID: 680-95335-2**

Date Collected: 10/17/13 10:57

Matrix: Water

Date Received: 10/19/13 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300159	10/25/13 01:40	JCK	TAL SAV
Total/NA	Prep	3520C	DL		299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	300734	10/30/13 15:31	GEM	TAL SAV

**Client Sample ID: PZ5**

**Lab Sample ID: 680-95335-3**

Date Collected: 10/17/13 11:45

Matrix: Water

Date Received: 10/19/13 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300159	10/25/13 02:02	JCK	TAL SAV
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Prep	3520C	DL		299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A	DL	4	300159	10/25/13 02:25	JCK	TAL SAV

**Client Sample ID: MW40L**

**Lab Sample ID: 680-95335-4**

Date Collected: 10/17/13 12:35

Matrix: Water

Date Received: 10/19/13 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		1	300159	10/25/13 02:48	JCK	TAL SAV
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV

**Client Sample ID: DUP2**

**Lab Sample ID: 680-95335-5**

Date Collected: 10/17/13 12:37

Matrix: Water

Date Received: 10/19/13 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			299780	10/23/13 15:34	RBS	TAL SAV
Total/NA	Analysis	8081B/8082A		1	300159	10/25/13 03:33	JCK	TAL SAV

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

## Certification Summary

Client: Kleinfelder Inc

Project/Site: Geigy Chemical Corp./Olin

TestAmerica Job ID: 680-95286-1

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14
Arkansas DEQ	State Program	6	88-0692	02-01-14
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-14
Georgia	State Program	4	803	06-30-14
Guam	State Program	9	09-005r	06-17-14
Hawaii	State Program	9	N/A	06-30-14
Illinois	NELAP	5	200022	11-30-13 *
Indiana	State Program	5	N/A	06-30-14
Iowa	State Program	7	353	07-01-15
Kentucky	State Program	4	90084	12-31-13
Kentucky (UST)	State Program	4	18	06-30-14
Louisiana	NELAP	6	30690	06-30-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-14
Michigan	State Program	5	9925	06-30-14
Mississippi	State Program	4	N/A	06-30-14
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14
New Jersey	NELAP	2	GA769	06-30-14
New Mexico	State Program	6	N/A	06-30-14
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-14
Tennessee	State Program	4	TN02961	06-30-14
Texas	NELAP	6	T104704185-08-TX	11-30-13 *
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-14
Washington	State Program	10	C1794	06-10-14
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-14
Wisconsin	State Program	5	999819810	08-31-14
Wyoming	State Program	8	8TMS-L	06-30-14

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

Serial Number 75098

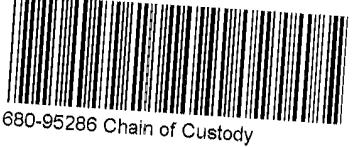
# TestAmerica

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

 TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

### THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE <b>Diva / Meiqy</b>		PROJECT NO. <b>131237</b>	PROJECT LOCATION (STATE) <b>NC</b>	MATRIX TYPE	REQUIRED ANALYSIS		PAGE <b>1</b>	1 OF <b>3</b>
TAL (LAB) PROJECT MANAGER <b>Michelle Kessy</b>		P.O. NUMBER	CONTRACT NO.				STANDARD REPORT <b>✓</b>	DATE DUE _____
CLIENT (SITE) PM <b>Chris Hay</b>		CLIENT PHONE <b>(336)668-0093</b>	CLIENT FAX				EXPEDITED REPORT <b>○</b>	DELIVERY (SURCHARGE) DATE DUE _____
CLIENT NAME <b>KleinSelders</b>		CLIENT E-MAIL <b>Change.KleinSelders.com</b>	CLIENT E-MAIL <b>pp022@KleinSelders.com</b>				NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
CLIENT ADDRESS <b>2113 Chillumose Dairy Rd Greensboro NC 27409</b>								
COMPANY CONTRACTING THIS WORK (if applicable)								
SAMPLE	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED				REMARKS	
DATE	TIME			AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	
Page 10-16-13	10:33	<b>MW-45</b>		X				
10-15-13	14:44	<b>MW-55</b>		/				
62	10-15-13	15:35	<b>MW-65</b>		/			
63	10-15-13	12:49	<b>MW-105</b>		/			
66	10-15-13	10:24	<b>MW-165</b>		/			
10-15-13	11:07	<b>MW-175</b>		/				
10-15-13	11:43	<b>MW-185</b>		/				
10-16-13	11:55	<b>MW-16D</b>		/				
10-16-13	12:15	<b>MW-17D</b>		/				
10-16-13	10:08	<b>MW-18D</b>		/				
10-16-13	13:49	<b>MW-22D</b>		/				
10-16-13	14:32	<b>MW-23D</b>		/				
RELINQUISHED BY: (SIGNATURE) <b>Jamie B</b>	DATE <b>10/18/13</b>	TIME <b>09:24</b>	RELINQUISHED BY: (SIGNATURE) <b>Teddy</b>	DATE <b>10/17/13</b>	TIME <b>19:00</b>	RELINQUISHED BY: (SIGNATURE) <b>✓</b>	DATE <b>10/17/13</b>	TIME <b>19:00</b>
RECEIVED BY: (SIGNATURE) <b>JMK</b>	DATE <b>10/18/13</b>	TIME <b>09:24</b>	RECEIVED BY: (SIGNATURE) <b>○</b>	DATE <b>10/17/13</b>	TIME <b>19:00</b>	RECEIVED BY: (SIGNATURE) <b>○</b>	DATE <b>10/17/13</b>	TIME <b>19:00</b>
LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS		
<b>JMK</b>	<b>10/18/13</b>	<b>09:24</b>	<b>○</b>	<b>680-95286</b>	<b>3.8/26/24/3.0/3.6/3.0°</b>			



680-95286 Chain of Custody

TAL8240-680 (1008)

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TAL8240-680 (1008)

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Serial Number 72841

# TestAmerica

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**TestAmerica Savannah**  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

### THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE Olin'Brien Michelle Kersey		PROJECT NO. 131237	PROJECT LOCATION (STATE) NC	MATRIX TYPE	REQUIRED ANALYSIS			PAGE 2	PAGE 2 OF 3	
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.						STANDARD REPORT	STANDARD REPORT	
CLIENT (SITE) PM Chris Hay	CLIENT PHONE (336) 668-0093	CLIENT FAX						DATE DUE	DATE DUE	
CLIENT NAME Kleinfelder	CLIENT EMAIL chay@kleinfelder.com ppozz@kleinfelder.com							EXPEDITED REPORT	EXPEDITED REPORT	
CLIENT ADDRESS 312 Bellmore Dairy Rd	Danbury Ave 27409							DELIVERY (SURCHARGE)	DELIVERY (SURCHARGE)	
COMPONENTS SUBMITTED PER SHIPMENT:										
SAMPLE	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED			REMARKS				
DATE	TIME									
10-17-13	15:38	MW-26A								
10-16-13	10:55	MW-30D	/	/	/	/	/	/	/	
10-16-13	13:30	MW-22L	/	/	/	/	/	/	/	
10-16-13	15:26	MW-25L	/	/	/	/	/	/	/	
10-17-13	10:59	MW-27L	/	/	/	/	/	/	/	
10-17-13	10:57	MW-31L	/	/	/	/	/	/	/	
10-17-13	14:45	MW-32L	/	/	/	/	/	/	/	
10-16-13	15:15	MW-36L	/	/	/	/	/	/	/	
10-16-13	16:03	MW-37L	/	/	/	/	/	/	/	
10-17-13	10:07	MW-38L	/	/	/	/	/	/	/	
10-17-13	12:40	MW-39L	/	/	/	/	/	/	/	
10-17-13	12:35	MW-40L	/	/	/	/	/	/	/	
RELINQUISHED BY: (SIGNATURE) Lorraine Blasius	DATE 10/18/13	TIME 09:34	RELINQUISHED BY: (SIGNATURE) FedEx	DATE 10-17-13	TIME 19:00	RECEIVED BY: (SIGNATURE) FedEx	DATE 10-18-13	TIME 19:00	RECEIVED BY: (SIGNATURE) FedEx	
RECEIVED FOR LABORATORY BY: (SIGNATURE) John	DATE 10/18/13	TIME 09:34	CUSTODY INTACT YES NO	RECEIVED BY: (SIGNATURE) FedEx	DATE 10-18-13	TIME 19:00	RECEIVED BY: (SIGNATURE) FedEx	DATE 10-18-13	TIME 19:00	RECEIVED BY: (SIGNATURE) FedEx
LABORATORY USE ONLY										LABORATORY REMARKS SAVANNAH LOG NO. 680-95286

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TestAmerica

4908

Serial Number

**ANALYSIS REQUEST AND CHAN OF CUSTODY RECORD**

**TestAmerica Savannah**  
5102 LaRoche Avenue  
Savannah, GA 31404

THE LEADER IN ENVIRONMENTAL TESTING

## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-95286-1

**Login Number: 95286**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Conner, Keaton**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	MISSING COOLER -18/-22/-24/-25/-28 (REC TB NOT LISTED)
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

## Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 680-95286-1

**Login Number:** 95335

**List Source:** TestAmerica Savannah

**List Number:** 1

**Creator:** Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	Received without COC loddeg per preprinted labels
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	